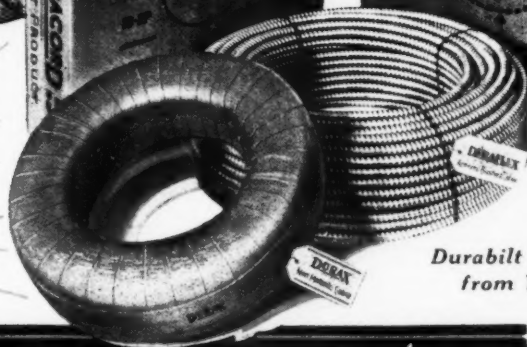


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Electrical Contracting

October 1929

With Which Is Incorporated
The Electragist



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To overcome this trouble, Hubbell engineers and switch experts departed from the beaten track of switch design. They worked out and tested many radically different forms of contact springs.

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After you have checked over the features of the new Hubbell Switches—clip the lower right hand corner of this page to your letterhead for a complete description.

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A radically new form of contact spring scientifically designed so that two different rates of vibration are set-up in the spring; one tending to counteract the other. Thus recoil is practically eliminated in the ends of the contact spring when the solid metal contact blade strikes between them. As a result, burning and pitting of the spring is prevented—even when in circuit with type "C" lamps. An automatic "kick off" prevents sticking of blades in contact.

Commutator support is perfectly insulated. Commutator blades are rigidly riveted to carrier, insuring positive alinement.

Spring arm is pivoted on a round shaft, seated in a symmetrical bearing, facilitating faster, smoother action without wear.

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A solid bridge with ears lies in a recess across Bakelite cover—entirely insulated; perfect alinement and rigidity insured.

Each wiring terminal is held by two screws. Bakelite case completely encloses mechanism.

A complete line to meet any need—

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- 9802—D. P., 10 amps. 250 volts
- 9803—3-way, 5 amps. 250 volts; 10 amps. 125 volts
- 9804—4-way, 2 amps. 250 volts; 5 amps. 125 volts
- 9805—S. P., 20 amps. 250 volts
- 9806—D. P., 20 amps. 250 volts



Hubbell Screwless Plates of Bakelite

Ask for a description of these self-aligning switch and outlet plates. You can obtain them in any color or finish to exactly match any background.

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HUBBELL Toggle Switches

Electrical Contracting

With Which Is Incorporated The Electragist

Victor A. Hanson, Eastern Editor

S. B. WILLIAMS
Editor

Coit A. Smith, Field Editor

Vol. 28

OCTOBER, 1929

No. 12

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RESALE PRICE NEWS

Occasionally we hear of a contractor who says our prices are too high—that if he used our prices he would never get any business. Our answer is that if he uses much lower prices he won't have any business before long because he won't be in business. Every price in ELECTRICAL CONTRACTING bears a reasonable and justifiable overhead and profit. To accept less is suicide.

The price changes this month are few in number and what there are, are very small. They will be found in:

Large sizes of conduit, elbows and couplings
Armored cable
Open link fuses
Covers for threadless fittings
C-H fuse panels
Ground rods
3-way tumbler switches
Trumbull switches

Additions to the Price Service this month include conduit reducers, types LBL—LBR—LU threadless fittings, and copperweld ground rods.

A reader asked if our 4-way switch prices were not too high as the local jobber's price was 92 cents. It seems that four or five months ago the price was doubled and all he had to go by were some old invoices. He has since written to say: "We find upon further investigation that your prices are right on the 4-way switches in question."

Moral:--Don't try to keep your own prices. ELECTRICAL CONTRACTING'S Price Service is always up-to-date on changes.

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TIME LOSSES

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***Blink
Your Eyes!!!***

To see the "regular stairs" you
have to blink your eyes >>

Likewise these items make
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profit sheets >>

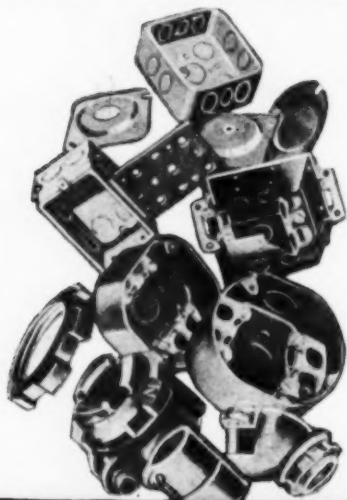
TL- E.O.-A. and Scrap are the
regular causes of profit losses.
"Fidelity to Standards" measures
labor costs. >>

SCRAP



6 WIRING SYSTEMS

and
FITTINGS



FIDE to STAN



for Every Concealed

National Electric Products Co.
National Metal Molding Co.
Pittsburgh, Pa.



1

2

3

ELITY DARDS

*National Products
melt into the job
without those labor
losses usually incident
to promiscuous
buying*



able Requirement

Corporation
Division



WIRES
and
CABLES



4

5

6

**"Fidelity to Standards" eliminates
the *Extras* and makes the estimated
profits run true . .**

*National Products
melt into the job
without those labor
losses usually incident
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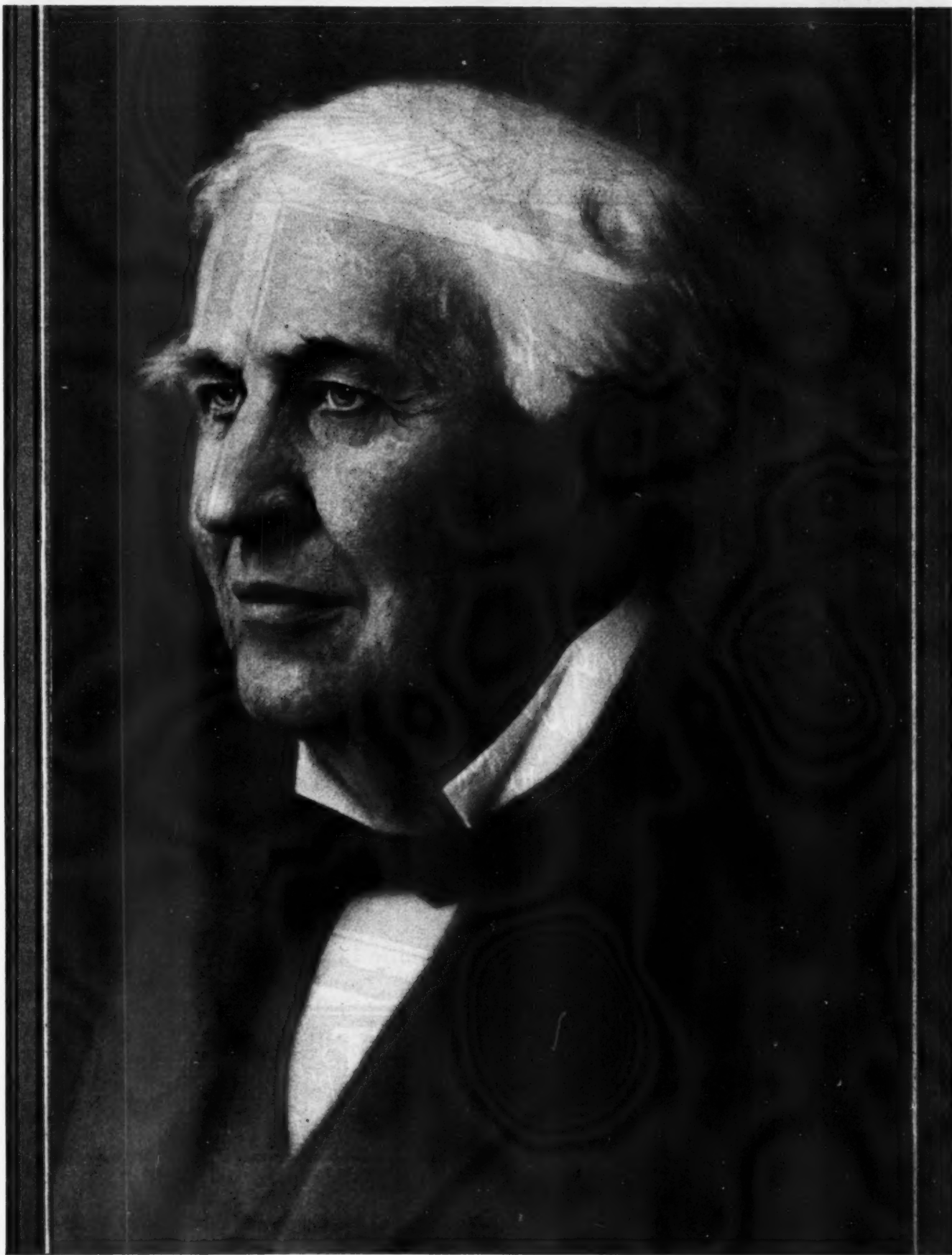
LAST LONGER

COST NO MORE

SMOOTH WORKING



National Electric Products Corporation
National Metal Molding Division
Pittsburgh, Pa.



Thomas A. Edison

Whose Invention of the Incandescent Lamp on October 21, 1879, Will be Celebrated This Month Throughout the United States in Light's Golden Jubilee.

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from mine to consumer
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Jobs!*

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John Wise Decides to **Specialize**

"MOE! Cut yourself a piece of cheese-cake," hollers John Wise, "and tell Flatfoot to put it on my bill. I feel good today."

"How come?" inquired Henry Trimmer.

"Just lost a nice job," replied John Wise.

"You a chob haff lost unt you buy me cheese-cake?" marveled Moe. "It iss bats in th' attic you iss breeding."

"Lemme tell you about it," said John.

"You see, a fellow I know named Doyle just built him a new roadside garage and said he wanted lights and wiring. It was a cheap little building and so I scrambled through the stock room and found a fixture I could sell for less 'n a dollar and I drove over.

"There were three other fellows on this job. So I scaled things up and made him an estimate. I was low an' he told me the job was mine.

"'But, o' course I gotta treat these boys right,' says Doyle, 'so we'll have 'em in to tell their story.' That was 'oak' with me an' I sat there while they made their spiels.

"Th' last fella had a swell fixture an' his bid was about double mine. 'Yer out,' said Doyle. 'Yer way high.'

"'Sure I'm high, but I'm not out,' says the fella, 'Yer high yerself. These here Chevies you sell is priced a lot more'n a bicycle. Lookit, mister,' he went on, 'do you see that label? That means my fixture is approved by th' fire underwriters. Are any o' these other fixtures approved? They ain't. Awright. Suppose you have a fire—you just had one and you ain't got your insurance adjusted yet. S'pose you have another fire, do you want th' adjuster to say, 'Nix—you stuck in a lot o' cheap electrical stuff that wasn't approved?'"



WELL, fellows, the lad was good. He did as swell a bit of selling as I ever listened to, and when he got through he had the order at darn near twice what I'd asked for the job. O' course Doyle was apologetic, but I says to him, 'Mister Doyle, any time I get beat by a man who bids twice as much as I do, I'm tickled pink. This lad is going to give you a swell job and I congratulate you right now.' So I beat it."

"But vy celebrate mitt cheese-cake?" inquired Moe.

"Because I learned something I'm going to make a lot of money out of. This man got twice my price and took the job right out from under my nose because he was a **lighting specialist**. He knew his stuff and how to strut it. From now on I'm going to cut out a lot o' this dog-eat-dog business. I'm going to specialize. This chap taught me 't that's the way to get real prices and make real profit."

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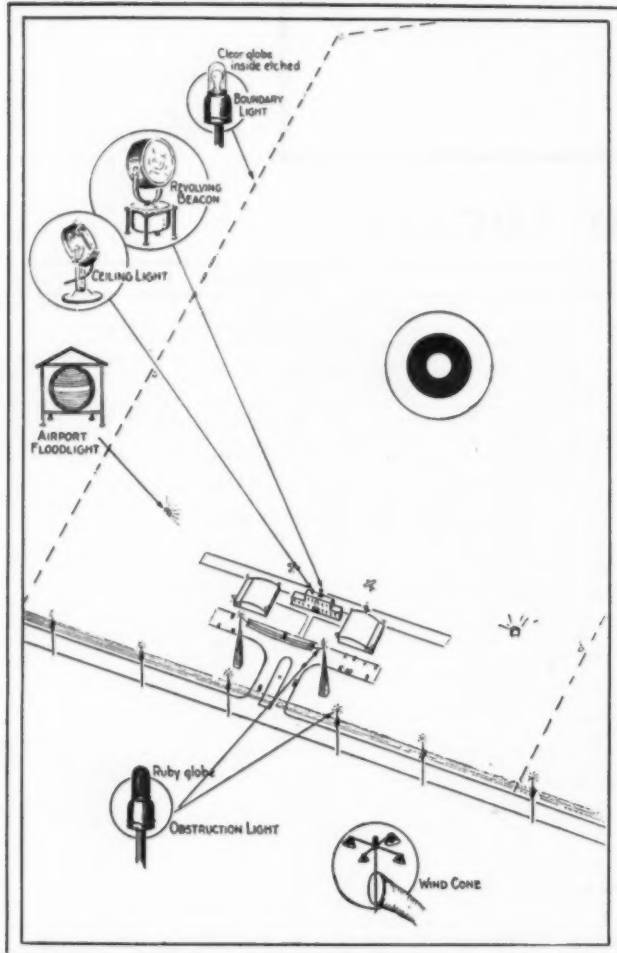
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Minimum Airport

By C. E. WEITZ

Engineering Department
National Lamp Works, Cleveland

*Brief of Department of Commerce
requirements for an airport to
obtain an "A" rating on night
lighting facilities*



Minimum lighting facilities required for an airport to obtain an "A" rating

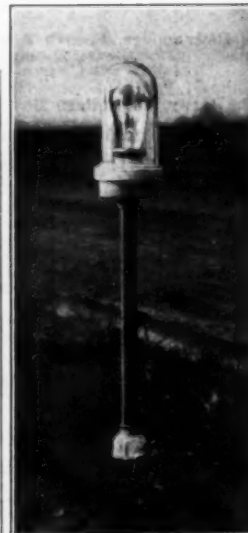


Airport Beacon

Minimum candlepower, 100,000 for long range, and in no case less than 15,000. Rotating or flashing with flashes not less than one-tenth second duration or luminous period not less than 10 per cent. Light distribution such as to be visible all around horizon and to the zenith, or nearly so, for altitudes of 500 to 2,000 ft.; distinctiveness for identification; automatic lamp changers or auxiliary units for reliability.

Boundary and Obstruction Lights

Either 600-lumen series or 25-watt multiple lamps in clear weatherproof globes on standards 30 in. above ground and spaced not more than 300 ft. apart to outline boundaries or landing strips. Multiple circuits limited to 5 per cent voltage drop. Green substituted for white to show points of best approach, and red globes to show hazardous approaches, using 1000-lumen series or 50-watt multiple lamps. All obstructions in vicinity must have red lights at highest points of obstruction.

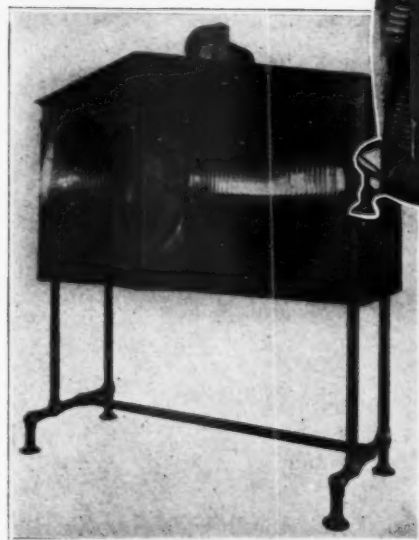


Lighting Requirements

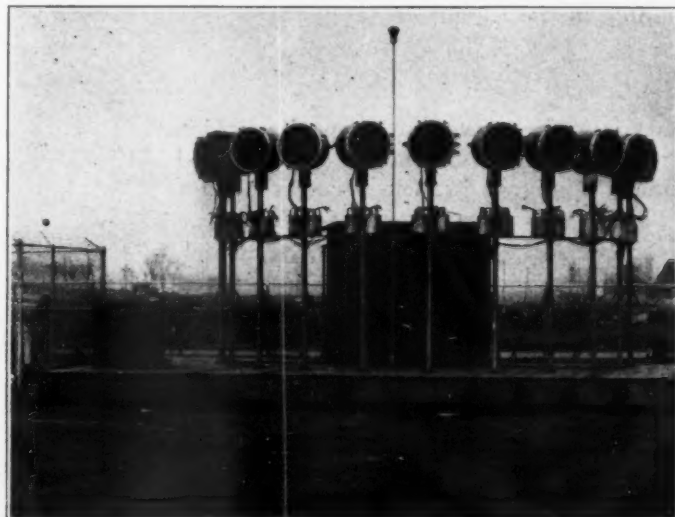


Ceiling Projector

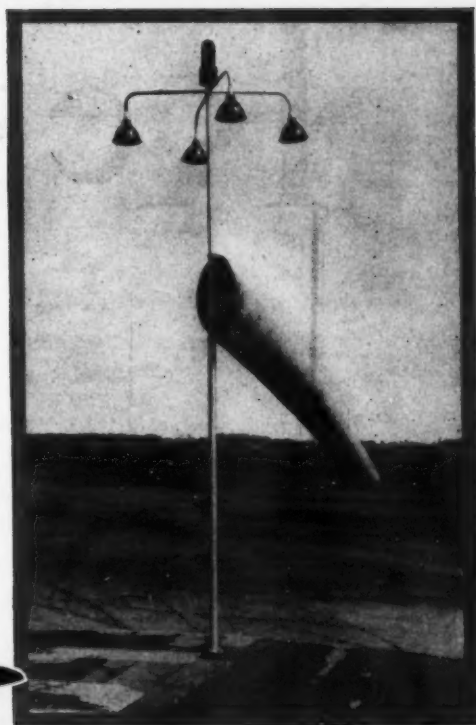
A 12-in., 250-watt incandescent lamp searchlight 7 deg. maximum beam spread to be installed for ceiling height measurements.



Field Floodlighting



Electrical Contracting, October, 1929



Wind Cone and Hangar Lighting

Illuminated wind-direction indicator to be visible from 1000 ft. in all directions if externally floodlighted. Wind cones internally lighted require not less than 200-watt lamp in suitable reflector.

Exterior surface of each hangar to be floodlighted to 2½ ft. candles with surface reflection factor at least 50 per cent.

One or more units to provide an even distribution of illumination without shadow areas and of sufficient illuminating powers as to make ground details visible from an altitude of 30 ft. The minimum vertical plane illumination over the usable portion of landing area shall not be less than 0.15 ft.-candle. System to be controlled from convenient point and sufficiently flexible to permit landing under all conditions of wind direction without the necessity of landing directly toward the light source. Units shall be mounted as low as possible consistent with contour of ground, and shall project a beam of narrow vertical divergence with sharp cut-off at top so as not to produce glare. When more than one unit is used, each shall be independent from the other in operation. In case of a single light source floodlighting unit, an automatic lamp changer shall be provided. In lieu of a lamp changer an auxiliary unit may be used which will give not less than .035 ft.-candle over usable portion of the field.

Special equipments

Left—Westinghouse bank with 3 and 1.5 kw. lamps; above—G.E. twin using two 10 kw. and two 5 kw. lamps; middle—BBT using 150 amp. arc or a 10 kw. lamp; right—Crouse-Hinds with 1.5 or 5 kw. lamp.

Residential Wiring

By ARTHUR L. ABBOTT

Uniform Ordinance Department, Society for Electrical Development

AFTER the standard load at each outlet has been determined, the contractor or wireman can proceed to make his layout in any way he sees fit, he can wire any combination of outlets that he wants to on one circuit so long as the total standard load per circuit does not exceed 1,000 watts, and he cannot, intentionally or unintentionally, "beat the game." A number of trial layouts have been made for

A **Lighting Branch Circuit** is a circuit of No. 14 Wire, fused at 15 amperes and supplying lighting (ceiling and bracket) outlets only.

A **Combination Lighting and Appliance Branch Circuit** is a circuit of No. 14 wire, fused at 15 amperes and supplying both lighting and convenience outlets.

An **Ordinary Appliance Branch Circuit** is a circuit of No. 14 wire, fused at 15 amperes and supplying convenience outlets only.

A **Medium-Duty Appliance Branch Circuit** is a circuit of No. 10 wire, fused at 25 amperes, supplying convenience outlets or permanently wired appliances or both. Such a circuit may not supply more than 12 outlets and is not permitted to supply any appliance rated at more than 15 amperes or 1650 watts.

(For complete description of these circuits see National Electrical Code, Article 1, Definitions; Section 807, paragraphs a, f and g; and section 1602, fine print notes and paragraph a.)

1. Outlets

At least one convenience outlet shall be installed in each of the following rooms, where any outlet is installed in the room:

Living room, parlor, reception room, reception hall, music room, sun parlor, library, den and bedroom.

At least one convenience outlet supplied by a medium-duty appliance branch circuit shall be installed in each dining room, breakfast room, kitchen and laundry, where any outlet is installed in the room.

2. Branch Circuits

The total of the standard loads, as specified in Section 3 opposite, which are supplied by one lighting branch circuit, one combination lighting and appliance branch circuit, or one ordinary appliance branch circuit shall not exceed 1,000 watts.

The total of the standard loads, as specified in Section 3 opposite, which are supplied by one medium-duty appliance branch circuit shall not exceed 2,000 watts.

All convenience outlets in the dining room, breakfast room, kitchen, pantry, laundry and bathrooms shall be supplied by one or more medium-duty appliance branch circuits.

*Presented at annual convention of the I. A. E. I., Western Section, Detroit, Mich., August 26-28

Suggested Practice

ring Layout

houses and apartments of various sizes. A study of these layouts indicates that the proposed plan is inherently economical.

To find the standard load at each outlet: Multiply

room area by $\frac{3}{4}$ to get the watts for ceiling outlet load. Multiply room area by $1\frac{1}{2}$ to get watts for total convenience outlet load, which divided by number of convenience outlets gives load at each.

3. Standard Loads

The standard loads for determining the number and arrangement of branch circuits shall be as follows:

Room or Space	Standard Loads supplied by Lighting, Combination or Ordinary Appliance Branch Circuits			Standard Loads supplied by Medium-Duty Appliance Branch Circuits WATTS PER ROOM (or listed Combination of two rooms)
	Ceiling Outlets WATTS PER SQ. FT.	Convenience Outlets WATTS PER SQ. FT.	Total of All Outlets WATTS PER SQ. FT.	
Living Room, Parlor, Reception Room, Reception Hall, Music Room, Sun Parlor, Library, Den	$\frac{3}{4}$	$1\frac{1}{2}$		
Bedroom	$\frac{3}{4}$	1		
Dining Room, Breakfast Room	1			
Dining Room, or Dining Room and Breakfast Room combined				1,000
Hall or Passage except Reception Hall			$\frac{1}{2}$	
Kitchen*	1			
Kitchen, or Kitchen and Pantry combined				1,000
Laundry**				1,000
Bathroom				1,000
In any room other than those listed above, where one or more convenience outlets are supplied by a medium-duty appliance circuit.				1,000

*An outlet intended for the connection of a refrigerator may be supplied by the kitchen appliance circuit, regardless of the location of the outlet.

**"Laundry" shall be understood to mean any room or space used for laundry purposes not in the kitchen.

"Watts per sq. ft." means watts per square foot of floor area of the room or space.

The standard load at each bracket outlet shall be 50 watts.

The standard load at each lighting outlet in a closet shall be 15 watts.

The standard load at each lighting or convenience outlet supplied by a lighting, combination or ordinary appliance circuit and located in any room or space other than those listed above shall be 50 watts, except that an outlet specifically intended for a load greater than 50 watts shall be wired for such specific load.

The total standard load at the convenience outlets in one room shall be considered as divided equally between the convenience outlets installed in that room.

THE BEST IN

Show

These photographs and layouts were submitted by leading manufacturers of show window lighting equipment as representing the best practice with the use of their units



John Ward Shoe Store, Fifth Avenue, New York City

Unit: No. 510—200 Watt X-Ray reflectors in side windows and around edge of dome in center window

No. 800—200 Watt X-Ray reflectors above center of dome

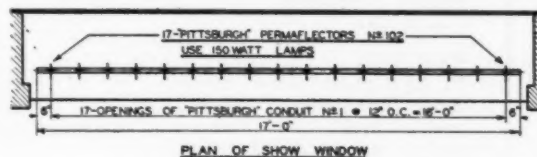
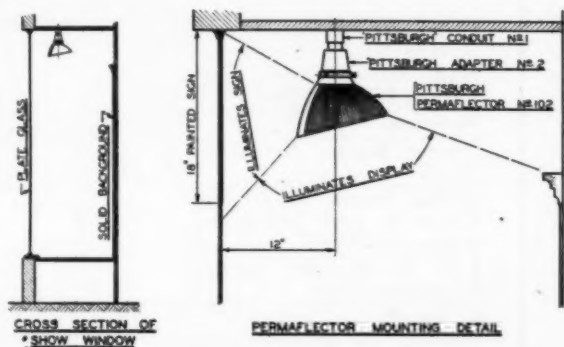
Floor Dimensions: Circular window 12 ft. diameter. Side windows about 10 ft. long by 2 ft. deep

Ceiling Height: Approximately 10 ft.

Spacing: 12 in. centers

Mounting Height: Recessed with ceiling flanges flush with ceiling about 10 ft. above floor

Remarks: 30 No. 535, 100 Watt X-Ray reflectors are concealed behind dome and directed at various angles on mirror mosaic background above and behind windows, producing a scintillating jewel effect



Dow Drug Co., Clark Bldg., Pittsburgh, Pa.

Unit: Pittsburgh Permalector dual purpose No. 102 with 150-watt lamps

Spacing: 12 in. centers. Mounted as shown 12 in. behind painted sign valence

Ceiling Height: 8 ft.

Contractor: Meier Electric Co., Cincinnati, O.

Windows

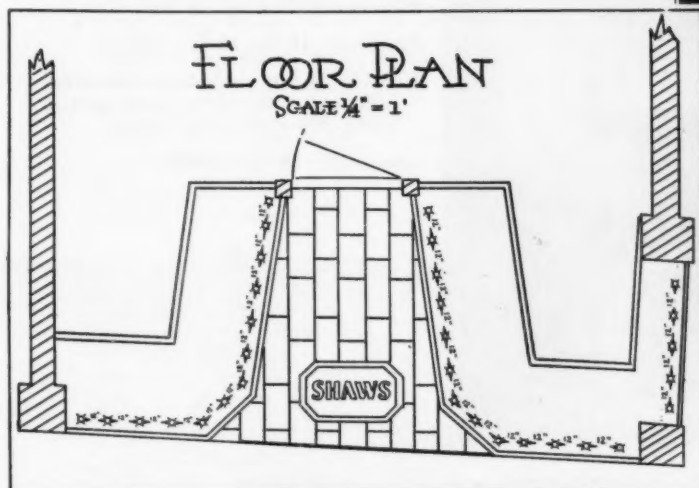
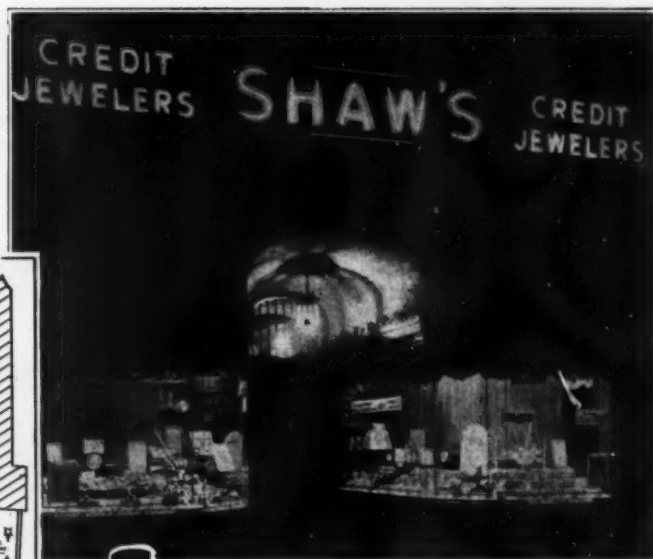
Shaw's Jewelry Co., 5649 Broadway, Cleveland, O.

Units: Lang's Daylight Belda, No. 220, using 220-watt lamps

Spacing: 12 in. centers

Mounting: Concealed above ceiling with special metal ring

Contractor: Lake Electric Co., Cleveland



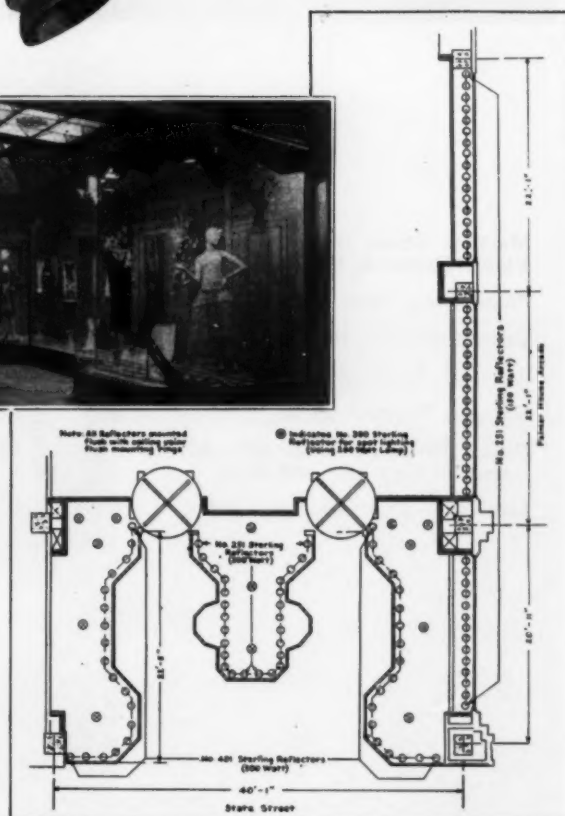
Mangel's, Palmer House Arcade, Chicago

Units: 500-watt, 200-watt and 150-watt Reflector & Illuminating Sterling silver plated glass reflectors

Spacing: 500-watt on 15 in. centers
200-watt on 12 in. centers
150-watt on 12 in. centers

Ceiling Height: 9 ft. 10 in., reflectors mounted flush in ceiling

Intensity: 250 ft. candles



THE BEST IN



Factory



Gabriel Snubber Mfg. Co.,
Cleveland, O.
Engineering Machine Shop

Dimensions: 60 by 120 ft.
12 ft. from floor to bottom of
roof trusses

Mounting Height: 12 ft.

Spacing: 10 by 12 ft. centers

Units: 20 in. Abolite—Glassteel
diffusers with white glass globes
using 300-watt clear lamps

Intensity: 18 ft. candles



Machine Shop, Doheny-Stone Drill
Plant, Torrance, California

Floor Dimensions: 60 ft. by 300 ft.

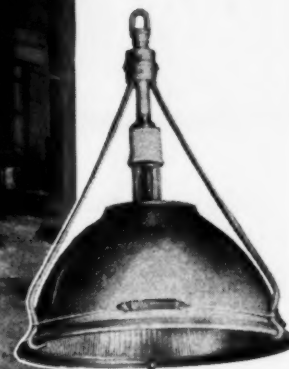
Ceiling Height: 22 ft.

Spacing: 16 ft. 6 in. staggered

Hanging Height: 22 ft.

Unit: Holophane No. 691—AL in-
tensive high bay 1000-Watt

Intensity: 22 ft. candles



LIGHTING

Lighting

These photographs and layouts were submitted by leading manufacturers of industrial reflectors as representing the best practice with the use of their units

**Chicago Daily News, Chicago, Ill.
Composing Room**

Dimensions: 20 by 20 ft. bays

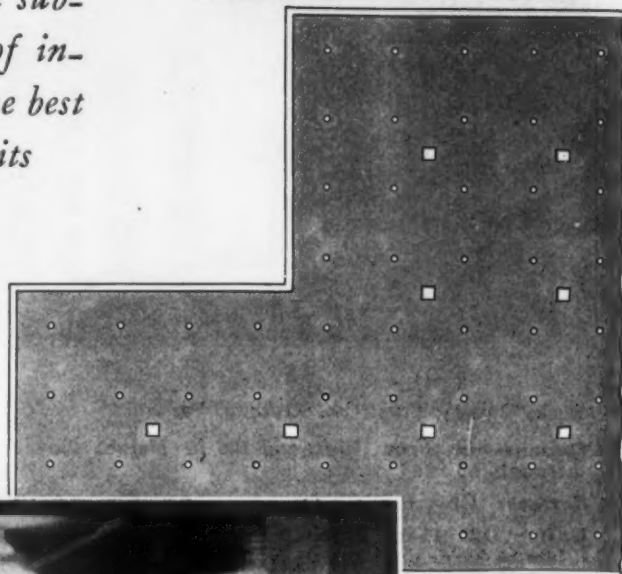
Spacing: 10 ft. by 10 ft.

Mounting: 8 ft.

Units: Benjamin Type 79 Glassteel Diffusers,
with 20 in. Reflectors

Lamps: 300-Watt

Intensity: Average 25 ft. candles



Triad Manufacturing Co., Pawtucket, R. I.

Dimensions: 25,000 sq. ft. per floor

Ceiling Height: 10 ft. 6 in.

Units: Wheeler Durex R. L. M. reflectors

Lamps: 150-Watt

Intensity: Approximately 8 ft. candles



THE BEST IN



Berks County Trust Co., Reading, Pa.

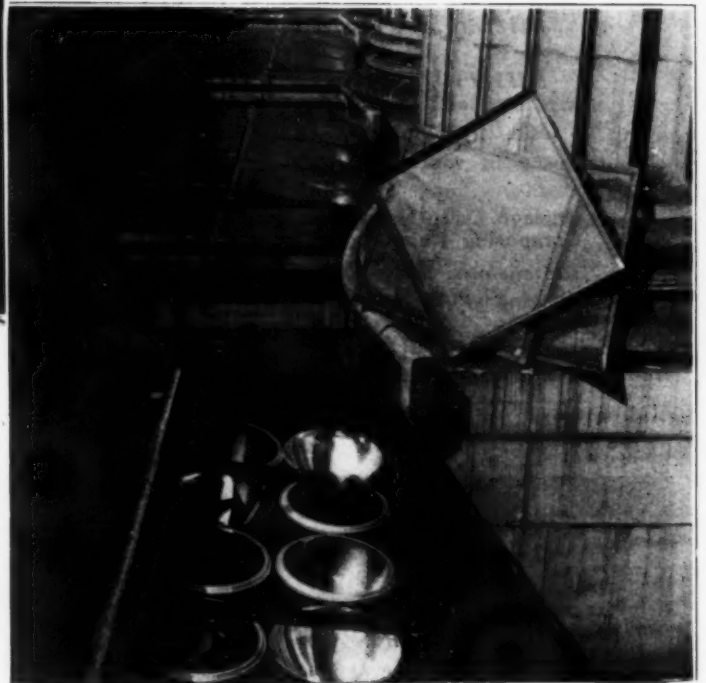
Dimensions: Front 50 ft. and 125 ft. Height above trough, 50 ft.

Surface: Grey Stone

Units: 120 11-in. Pittsburgh reflectors—400 watt lamps, 16 deg. beam; 80 No. 2 color lites, 40 red and 40 blue

Mounting: In copper troughs—double (as shown) for front and single at sides

Contractor: Electric Equipment Co., Reading



Flood



Laramie State Bank, Chicago

Building Dimensions: Height 15 ft. Frontage 60 ft. Chicago Ave., 127 ft. Laramie St.

Surface: Light colored terra cotta

Units: 28 Sterling No. 3000-S Flood-O-Lites 40 and 80 deg. spread, 500 watt G-40 lamps

Mounting: 10 to 15 ft. from building on light poles as shown

Intensity: 10 ft. candles



LIGHTING

Lighting



Location: Newark, N. J.

Surface: Buff Colored Brick

Units: Crouse Hinds

24—LCE 16 16-in. 500-watt (red lens)

78—RMU 12 12-in. 200-watt
(clear lens)

6—LCE 16 16-in. 500-watt (clear lens)

14—LCE 16 16-in. 500-watt
(amber lens)

Mounting: As shown, on balconies and ornamental stone work along sides of building

Intensity: Red (2880 sq. ft.) 10 ft. candles
Amber (10,032 sq. ft.) 10 ft. candles
White (5,728 sq. ft.) 20 ft. candles

Scottish Rite Cathedral, Indianapolis, Ind.

Dimensions: Tower rises 200 ft. above ground. Tower alone is about 134 ft. tall

Surface: Limestone

Lamps: 500 watt G-40

Units: 74 X-Ray projectors—10-20 deg. spread

Distance: 15 ft. on front face, 48 ft. on other faces

Intensity: 5 ft. candle



South Western Bell Telephone Bldg., Kansas City, Mo.

Dimensions: 29 stories, 130 by 100 ft.

Surface: Terra Cotta

Units: G. E. Form L projectors with 500 watt G-40 lamps, 148 projectors with stippled lens, 52 with 40 deg. beam, 12 G E hot cathode Neon tubes



~ THE BEST IN LIGHTING ~



Commonwealth Edison Co.,
Chicago, Ill.

Office

Dimensions: 20 by 20 ft. bays
Spacing: 10 by 10 ft. or 4 per bay
Hanging Height: 30 in. overall
from ceiling
Units: 16 in. Inland—Tillsonian
clear top semi-indirect
Lamps: 300-Watt type C
Intensity: 17 ft. candles on a 30
in. plane



Burdette College,
Boston, Mass.

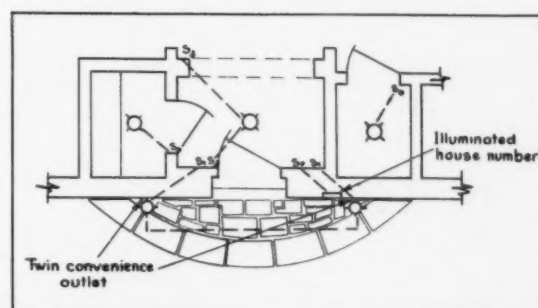
Classroom

Spacing: 10 by 12 ft. centers
Units: Wakefield Redspot semi-
indirect with special glass
Lamp: 200-Watt
Intensity: 8 ft. candles on desk
tops

What LIGHT Can Do for the HOME



THE architect gives it welcome by day, but light only can give it welcome by night. Lanterns, illuminated numbers so the visitor will know the way and the stranger pass on, convenience outlets to take care of Christmas and other outdoor decorative lighting — all controlled from within by switches.



- | | |
|-----------------------------|---|
| ⊗ Ceiling Outlet | ⊕ Floor Outlet |
| ⊕ Wall Bracket | S ₁ Local Switch - Single Pole |
| ⊕ Double Convenience Outlet | S ₃ Local Switch - 3 Way |
| ● Special Purpose Outlet | S ₂ Toggle Switch and Pilot |
| | S ₄ Automatic Door Switch |



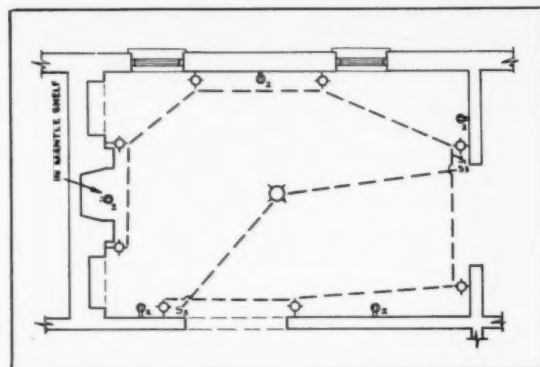
What **LIGHT** can do
for the **HOME**



THREE things are essential in properly lighting a living room:

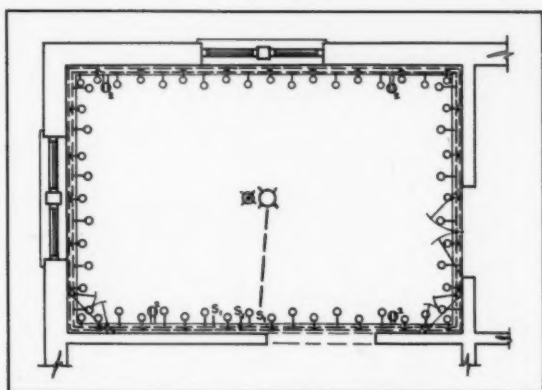
1. Flexibility of furniture arrangement necessitating many convenience outlets for the use of portable and floor lamps.
2. General illumination for use at gatherings and parties, possible only with overhead fixtures.
3. Cheerfulness, secured in large measure by breaking up dark wall areas and corners with light spots such as ornaments, torchiers, wall lights.

(The best results will be secured only with adequate and flexible switch control.)





What **LIGHT** can do
for the **HOME**



IF eating were the only business of the dining room, table top lighting would be sufficient, but since it is really the only family meeting place for conversation, a cheerful atmosphere is required and this is secured only with general lighting.

Most homes will use an overhead unit of the uninclosed type, but many of the more modern homes are using cove lighting, which also adapts itself to the use of colored and blended light.

A floor plug for appliances is an essential for maximum comfort and convenience.



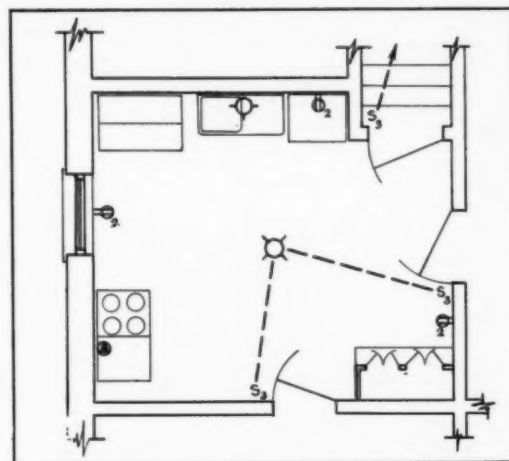
*What LIGHT can do
for the HOME*



LIKE a factory, the work shop of the home—the kitchen—requires light where the work is being done.

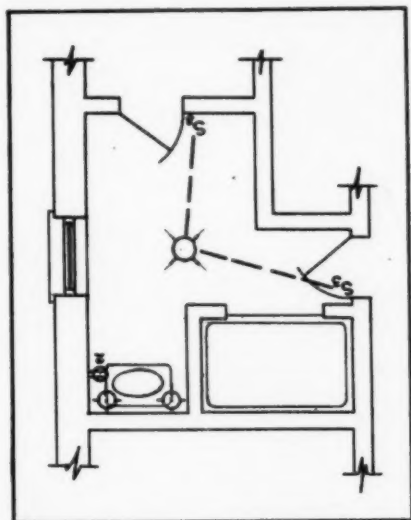
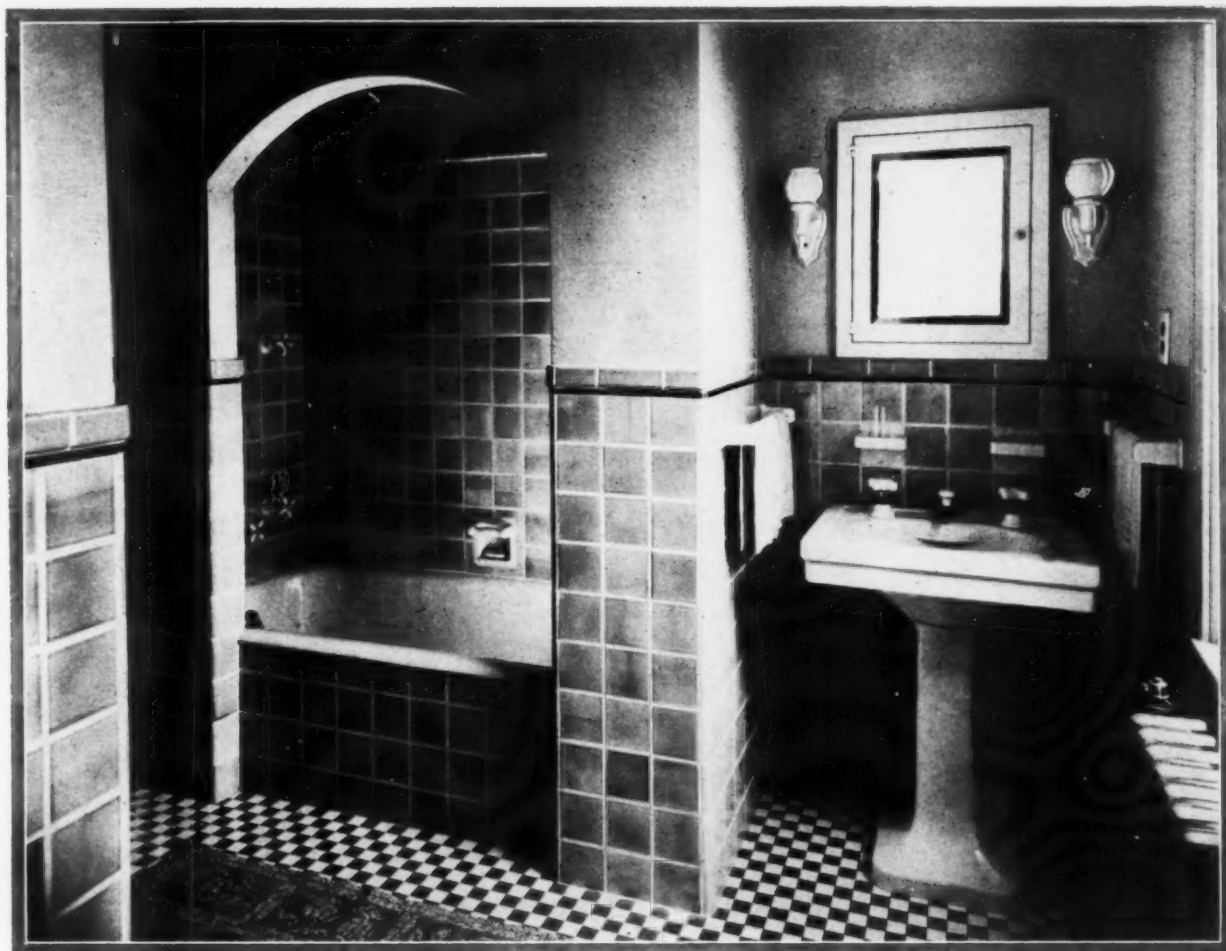
The center light gives general illumination. The light over the sink insures clean dishes, better inspection of food in its preparation. A further light over the range would have been an improvement.

Note the bullseye for the cellar switch and for the ironing receptacle. These may look like extravagances, but they pay for themselves many times over in current saved, let alone the fire risk of flat-irons.





*What LIGHT can do
for the HOME*



A CENTER light in a bath room for general use of the room, but when a man is shaving he has to remember that it is his face and not the back of his head that he is working on and, therefore, a light on each side of the mirror.



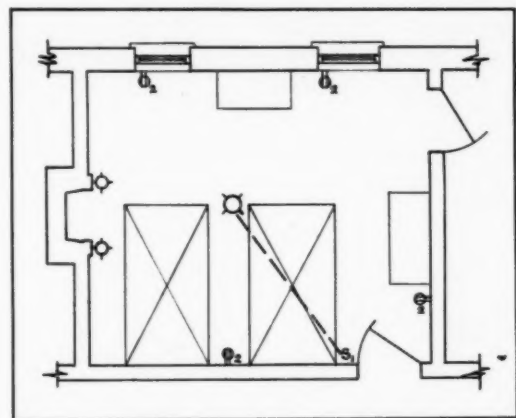
*What LIGHT can do
for the HOME*



HERE are two points to remember in lighting a bedroom: (a) Women want to be able to rearrange furniture and (b) they want to look just right when they have finished dressing.

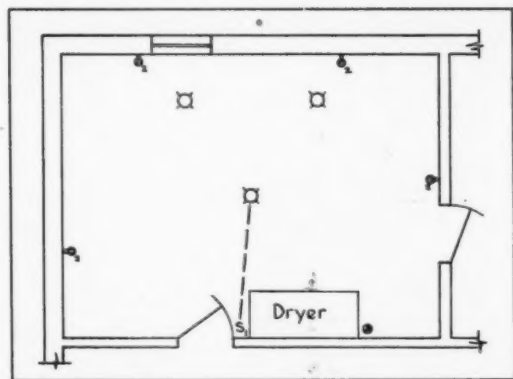
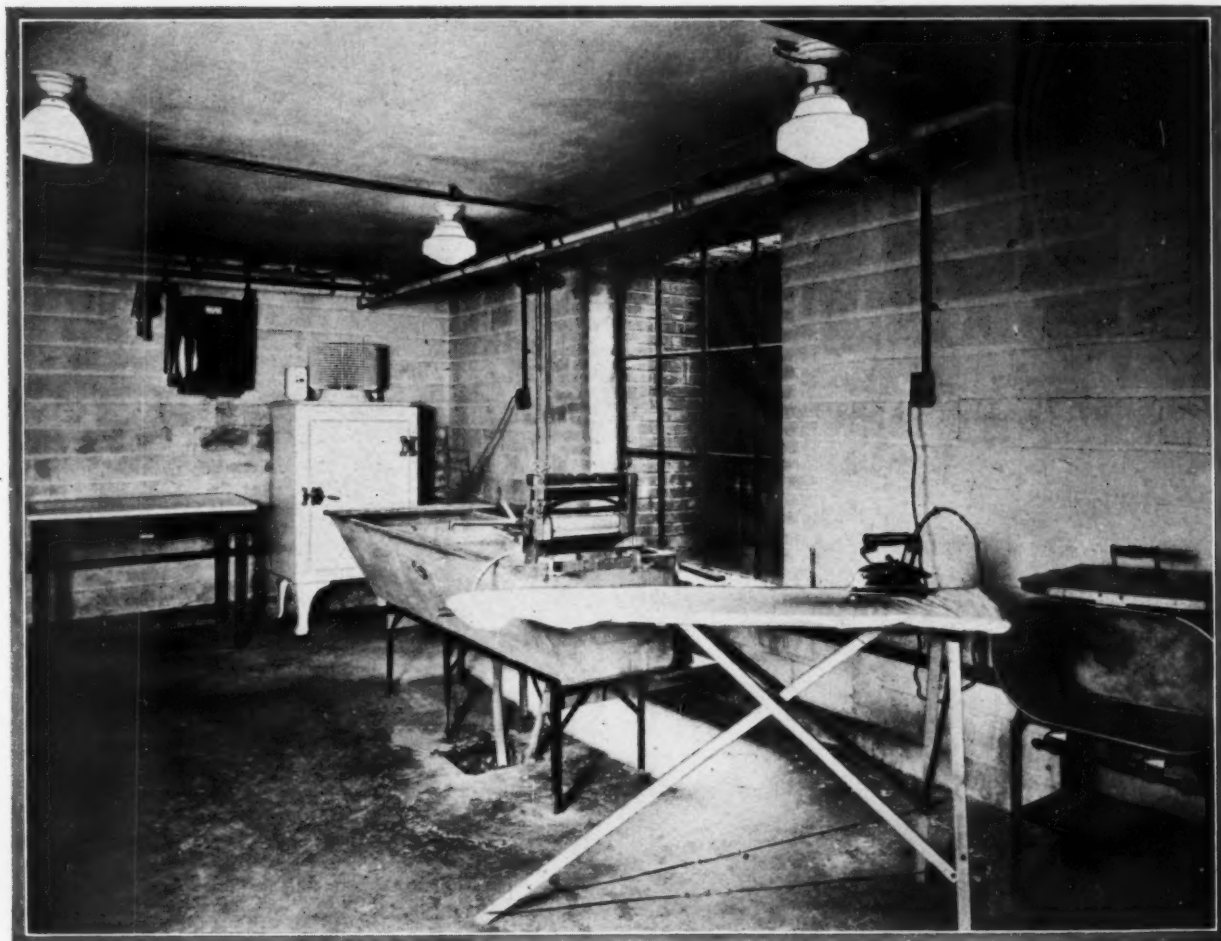
These are accomplished only by numerous convenience outlets to provide for bed lamps and dressing tables with lights at each side.

A single center ceiling fixture will be found very useful when only general lighting is required—and don't forget that a light in the closet will save time and help the disposition.





What **LIGHT** can do
for the HOME



THERE is no aesthetic value to light in the basement—it is all for business. Central light for general illumination and units over the tubs and ironing board. Note the latter units are inclosed because of the furnace dust.

In another part of the basement is the furnace and vegetable closet, each with its light.

Convenience outlets, it will be noted, are placed high, out of the way of dampness and injury.

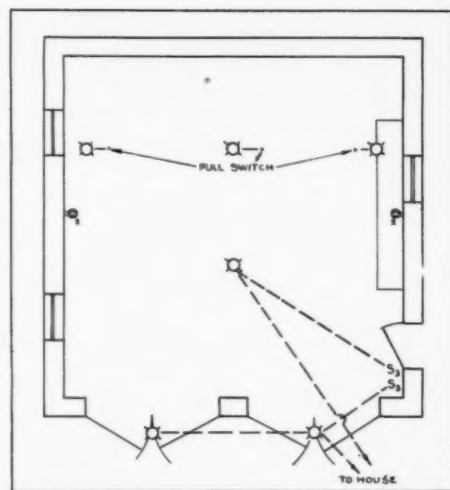


*What LIGHT can do
for the HOME*



SWITCHING is as important as lighting in the garage. Be sure the control is at both garage and house.

The center light (100 or 200 W.) for general use and the two front lights for the drive-way are essential. In addition a well-lighted garage will have a row of three overhead units spaced as shown so that one can work from the top or either side of the engine and have enough light.



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Depend on the uninterrupted service of the Subway System of the
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Money-Saving TRICO Factors

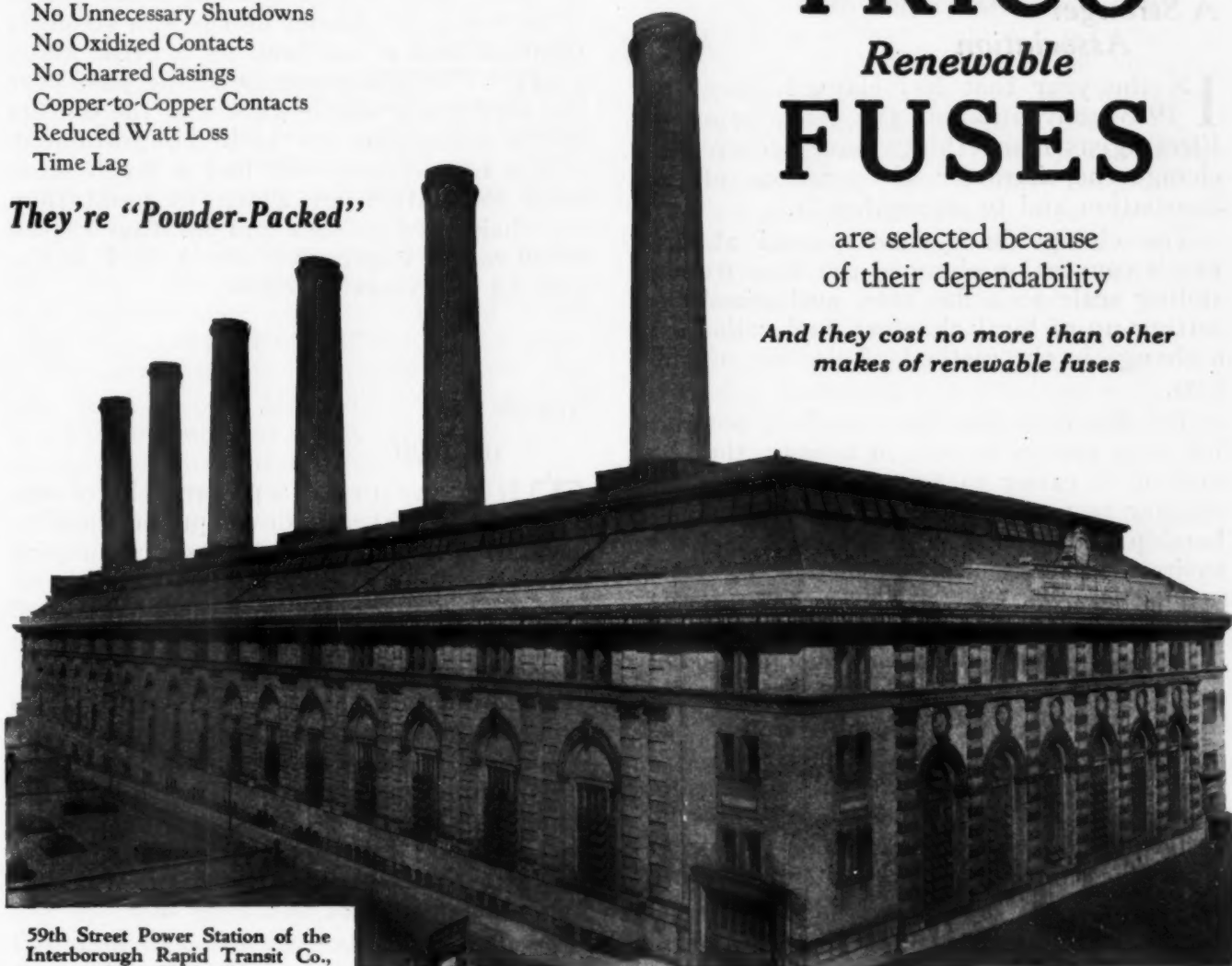
- No Premature Blowings
- No Unnecessary Shutdowns
- No Oxidized Contacts
- No Charred Casings
- Copper-to-Copper Contacts
- Reduced Watt Loss
- Time Lag

They're "Powder-Packed"

TRICO *Renewable* FUSES

are selected because
of their dependability

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TRICO FUSE MFG. CO., 1007 McKinley Ave., Milwaukee, Wis.



Electrical Contracting

With Which Is Incorporated The Electragist

S. B. WILLIAMS
Editor

A Stronger Association

IN the year that has elapsed since the 1928 convention of the Association of Electragists many things have occurred to change the character of operations of the association and to strengthen it.

The change in by-laws passed at last year's convention changed the dues from a sliding scale to a flat rate, authorized the setting up of local chapters, and called for a change in the method of election of officers.

The flat rate dues have made it possible for local groups to join in a body, thereby making it easier to set up chapters. The chapter movement has increased the membership and brought the association closer to its members.

The election of officers and executive committee from the floor of the convention is giving members more of a feeling of participation in association affairs.

The development of local chapters has brought forward many able men who will take an active part in national association work. This is most encouraging for the association has been demanding too great a sacrifice on the part of a few willing workers.

Since the last convention the association has gone out of the publishing business having sold The Electragist. All of its efforts are now directed towards serving its members.

For the first time in years the association is not only out of debt but has a surplus in the bank. With a definite income in sight and with money in the bank the association is in the more comfortable position of not having to make hasty decisions. It can prepare a budget for a year of real work and know that the job can be carried through.

It is safer to say that all in all the Association of Electragists is closer to its

members as a whole, is doing more worth while work, is sounder and is in a stronger position than it has been for a great many years. The achievements of the past year are very much worth while and the officers of the association are to be congratulated.

The new officers will find a much more solid foundation on which to build than did their predecessors and for that reason much can be expected of the A. E. I. in the months and years to follow.

Speak Not of Evil

THEY say it takes a powerful lot of repetition to break down public indifference to any subject. And so, we repeat what has been said so often in these columns: Let's stop talking about the evil ways of some contractors; let's talk about the good things contractors do.

Let's not talk about the curbstoner; let's talk about the good contractor, the one who is making money—there are a lot of them.

The more we talk about the price-cutting and job-skinning of this or that contractor, the more we leave the impression that the contractors are pretty much all that way—and they aren't, not by a long shot.

Go into any city and you will find that the bulk of the wiring work is done by electrical contractors who take a pride in their work, by men who are building business, by men who are making a profit.

Electrical contracting is like going to college—the easier it is to get in, the harder it is to stay in; and the place that is hard to get in is easy to stay in, because of the necessary preparation.

The important jobs and the bulk of the wiring work of this country are not being done by the freshman in the business, but by the men who have learned how to stay in—and they didn't learn how to do this by price-cutting, job-skinning tactics.

Be Not Afraid

EVERY now and then a representative of one of the branches of the industry does something that is detrimental to the contracting business.

When that happens see the offender and get it off your chest. Maybe you didn't have it right in the first place. Maybe you didn't get all the facts. Maybe the other fellow just didn't think and all he needs is to have it called to his attention. Maybe the fellow is breaking a policy of his company that his superiors can never in the wide world find out unless someone tells them. And, maybe they meant to do what they did, but a little courage on your part will make them think twice before doing it again.

But, above all things; have your facts before you seek a showdown. Don't go into such a conference unless you intend to lay all cards on the table and have all the facts.

The other fellows are only human just the same as you are. They haven't any more brains, and the chances are that, being employees, they aren't making any more money than you are.

Don't hate, for to hate is to fear—and there isn't anything to be afraid of.

Why Plumbers Ride in Cadillacs

A STORY has been going the rounds for many months to the effect that on a certain job the plumber built up his contract by suggesting additional work, while the electrical contractor cut the size of the job by subtracting outlets. It was noticed that the plumber came on the job in a Cadillac car and the electrical contractor in an old Ford—and the obvious moral as drawn.

Now, nobody more seriously deplores cutting of the job than we do. But, so much prominence has been given to the above story as teaching a fundamental truth that in justice to the electrical contracting business of the country, we feel that we should give the rest of that story.

The plumber knew before he went on that job that whether he sold the plumbing fixtures or somebody else did, he would have full protection.

In other words, there is a stability of purpose and a recognition of channels of distribution in the plumbing industry and these

conditions have been instrumental in making plumbing more profitable.

If a man knows that by promoting the sale of an appliance his efforts will be recognized, how much more effective he is going to be as a market builder than the man who is faced with unmeetable competition from the jobber, manufacturer and power company.

Electrical contractors are no different than plumbers—both have come up from the tool bag. Both employ the same grade of labor and in neither trade is it necessary to have a lot of capital to start in business. Why, then, should there be any difference in the two groups as business men?

If the answer is not to be found in the men themselves, then it must be found in the conditions underlying the business. Some of these conditions are of the contractors' own making; but the same is true of all contracting business—even that of the plumber.

Many of the difficulties that are keeping electrical contractors in Fords of forgotten age are conditions that are not of their own making such as:

Uncontrolled credits.

Wholesale prices to anybody who might want to do wiring on whole or part time, be he wireman, power company employee, industrial electrician working nights, janitor, etc.

Courtesy discounts even to the fifth cousin of a neighbor of a purchasing agent.

Unmeetable partial payment terms on the part of power companies.

Direct selling of motors and transformers by manufacturers.

Small quantity sales to industrials at wholesale prices.

Free lamp renewals and cut prices on lamps by utilities which do not have to abide by the same agency regulations laid down by the manufacturers as do the contractors.

Wiring sales by utilities at prices below the costs of recognized contractors.

And there are many other items that could be added to the list.

We're for getting the contractors out of the Ford and into the Cadillac class—yea, even a Rolls-Royce—just as soon as possible, but it can't be done unless he is given as good a break as the plumber.

This is not an attempt to whitewash the electrical contractor. Heavens knows, we are as fully aware of his shortcomings as anybody—but it is an invitation to everybody who has enjoyed the Cadillac story to do his part towards making it possible for the electrical contractor to have an opportunity equal to that of the plumber.

Contracting News

Information of Interest to Electrical Contractors consisting of items of news, short articles, practical ideas, etc. Our readers are invited to contribute to this department.

Edison to Re-enact Lamp Invention

The international observance of Light's Golden Jubilee marking the fiftieth anniversary of the invention of the first practical incandescent lamp by Thomas A. Edison will reach its climax in Menlo Park laboratory, Dearborn, Mich., Oct. 21, when the inventor will reconstruct the lamp of fifty years ago and cause it to light.

The scene will be enacted in the original building in which Mr. Edison made his first successful experiment with incandescent light. This building has been transferred to Dearborn by Henry Ford who has started the foundation of a perpetual tribute to Edison.

President Herbert Hoover, honorary chairman of the National Sponsoring Committee, when ac-

cepting the chairmanship said: "I shall be delighted to serve in any capacity which will be a genuine tribute to Mr. Edison's services."

The Government has issued a special two-cent stamp to commemorate the celebration. It is said that 330,000,000 stamps have been purchased since June 5.

The Jubilee was brilliantly inaugurated in Atlantic City May 31, where thousands of visitors joined the residents of the community in witnessing a brilliant display of light. In the presence of Vice President Curtis, Preston S. Arkwright, then president of the N.E.L.A., delivered the address opening the ceremonies.

Among the nations paying tribute to Edison are: Austria, Japan, France, Italy, Germany, Holland, Sweden, China, Mexico, Canada, Brazil and Argentina.

Motor Specialists Make Recommendations

Ending a day crowded with individual reports and discussion the Motor Section, California Electragists, Northern and Southern Chapters, in its second statewide meeting correlated into one paper the subjects it desired brought up before manufacturers of motors and motor equipment at the convention of the A. E. I. at Swampscott, Mass. Thirty motor specialists representing a total of fifty of the most substantial motor dealers in the state, deliberated on the subjects included in this report and recommendation to manufacturers and in unanimous resolutions authorized its committee to proceed.

The subjects covered in the report deal with suggested policy as

NEW ELECTRAGISTS

The following contractor-dealers have made application and been accepted into the A. E. I. since the publication of the list in the September issue:

CALIFORNIA

Montague:
I. N. Scammell
Oakland:
Diamond Electric Co.
George Woolf
Los Angeles:
Joseph Roller
Richmond:
V. G. Electric Co.
Salinas:
Anderson's Radio & Elec.
Shop
Electric Service Co.
Posz Electric Shop
San Diego:
City Electric Co.
Carl Heildron
San Francisco:
The Electric Heat Shop

CONNECTICUT

New London:
Thomas J. Ealahan
Gordon Pendleton, Jr.

The J. Warren Gay Elec-
trical Co.
Quickservice Elec. Co., Inc.
Willimantic:
Dean's Elec. Shop

FLORIDA

West Palm Beach:
Van Son Elec'l Service

MARYLAND

Leonardtown:
Smith's Battery & Elec. Co.

MISSOURI

Kansas City:
F. E. Newberry Elec. Co.

OHIO

Akron:
The Dauntless Plbg. & Elec.
Co.
Cleveland:
The Schulte Elec. Co.

Toledo:
The Romanoff Elec. Co.

PENNSYLVANIA

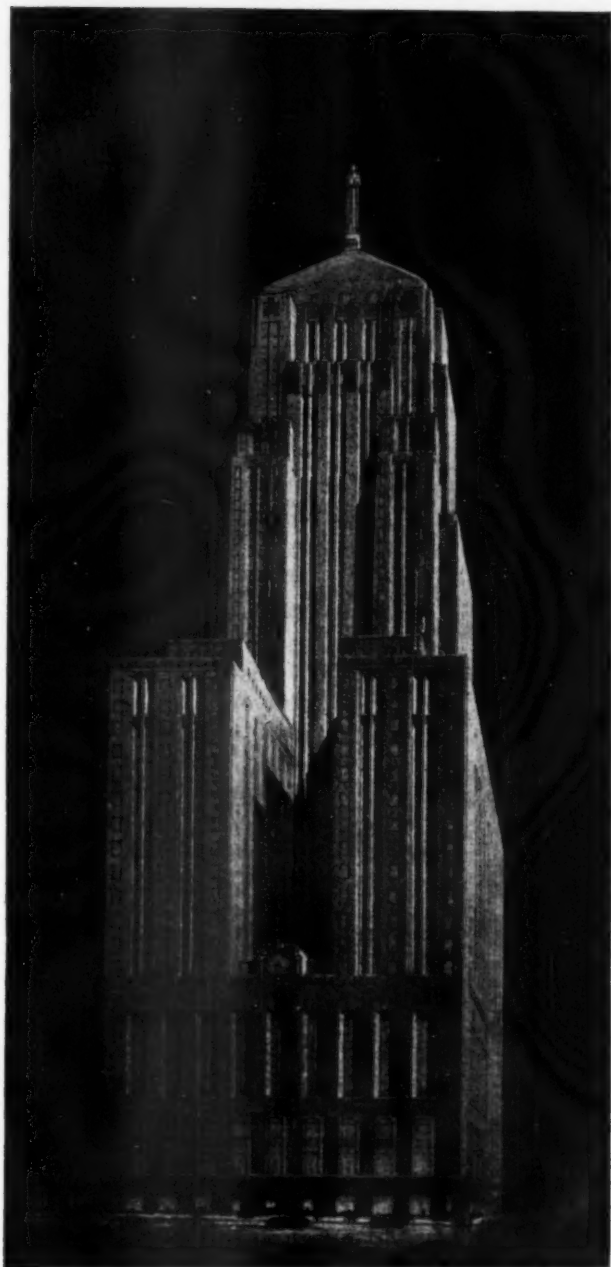
Erie:
P. M. Geary
Philadelphia:
Ross Elec. Cons. Co., Inc.
Union Elec. Contrg. Co.
Walker & Kepler, Inc.

UTAH

Brigham:
Peterson Service Elec.
Logan:
Carl W. Pehrson
Cache Valley Elec. Co.
Ogden:
Dunn Elec. Co.
Elec. Service Co.
The Lighthouse
Ogden Elec. Co.
Redfield Elec. Co.
J. Sampson Elec. Co.

Salt Lake City:

Apex Elec. Co.
Ed. H. Eardley Elec. Co.
Blaine Grey Elec. Shop
Wasatch Elec. Co.
A. M. Overby Elec. Co.
A. N. Sisam
Felt Elec. & Auto Sup. Co.
Maybee & Shipley Elec.,
Inc.
M. A. Strand
W. D. Duckworth
M. J. Kynaston
Erskine Elec. Co.
Waterloo Elec.
E. G. Holding Elec. Co.
A. B. Christensen
Frank H. Eardley
J. M. Hoggan
Granite Elec.
C. S. Jones



CHICAGO
BOARD
of
TRADE
BUILDING

At the foot of La Salle Street, Chicago's famed financial thoroughfare, is being constructed this magnificent building, to be the home of the world-renowned trading organization.

GALVAKOTE

is one of the many best materials used throughout to make this structure a beautiful, serviceable and enduring monument to commercial enterprise.

Holabird & Root, Architects
Chicago

Hegeman-Harris Co., Builders
Chicago

Henry Newgard & Co.,
Electrical Contractors
Chicago

CLAYTON MARK & COMPANY

CHICAGO

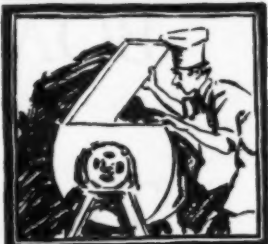
Manufacturers of
GALVAKOTE and ENAMELKOTE
SUPER-QUALITY RIGID CONDUIT PIPE

the



Butcher

the



Baker

the

Candle
Stick
Maker

all have business for you

EVERY user of single phase motors has business for the electric service dealer.

Motors on coffee grinders, meat choppers, shoe repair machines, and other types of single phase motor driven equipment can be quickly and profitably given brush service from the Ohio Kit No. 35.

This Ohio Kit, which is small enough to carry under your arm, contains 132 brushes and will service over 300 types of single phase motors. With this kit on your shelf, you are equipped to give prompt, efficient service. Refills can be ordered at any time.

The Ohio Carbon Co.

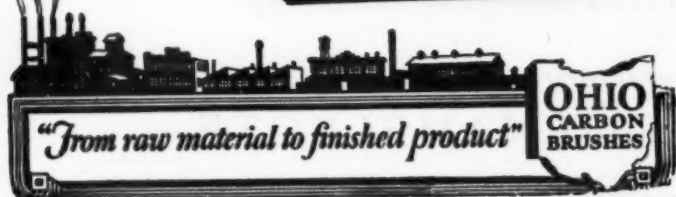
12508 Berea Road

Cleveland, Ohio, U. S. A.

West of Rockies: 1066 Howard Street, San Francisco, Calif.



**Ohio Kit
No. 35
Price
\$25.00**



CONTRACTOR FOR 34 YEARS:

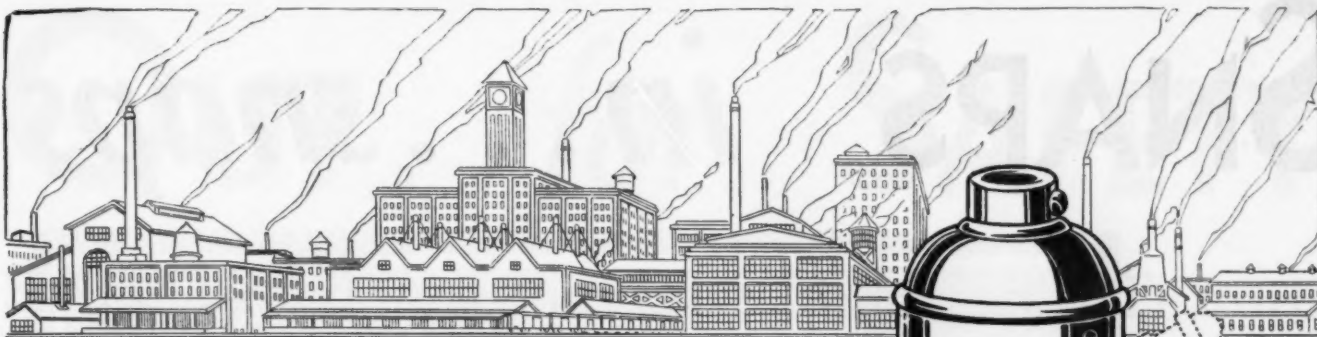
—Fred A. Hartshorn, Jr., Walpole, Mass., started in business with a small shop in an obscure location. We see him standing in front of his seventh location which is on the main street in the shopping center of the town. One feature of his progress has been his attention to advertising.

regards sales to Class A and Class B industrial customers, a revision of discounts on all classes of equipment and more strict definition of Class D franchise holders.

The correlating committee set up by Chairman H. Adams consisted of the following: F. O. Sievers, Coney & Kuchel Electric Co., San Francisco, and acting chairman of the National Motor Section; K. M. Noble and L. A. Douat, Buzzell Electric Works, San Francisco; S. S. Rice, Quality Electric Motor Company, Oakland; Frank Boyd, Pacific Electric Motor Company, Oakland; L. H. Ellet, Quality Electric Works, Los Angeles, and Joe Rendler, Motor Machinery & Supply Company, Los Angeles.

Papers read in the meeting and from which the final report was drawn were "Discounts on Fractional Horsepower Motors," by K. M. Noble; "General Discount Classifications," by H. O. Sievers; "Activities of Manufacturers in Class A Trade," by L. A. Douat, Buzzell Electric Works, and Frank Cole, Enterprise Electric Works, San Francisco; "The Southern Division Motor Section's Recommendations," by Frank Connolly, secretary, Southern Chapter, California Electragists; "Manufacturers' Policy on Repairs," by S. S. Rice; "Repair Part Discounts," by F. S. Boyd, read by Walter Vance.

Following the all day business session the San Francisco motor dealers tendered their guests from



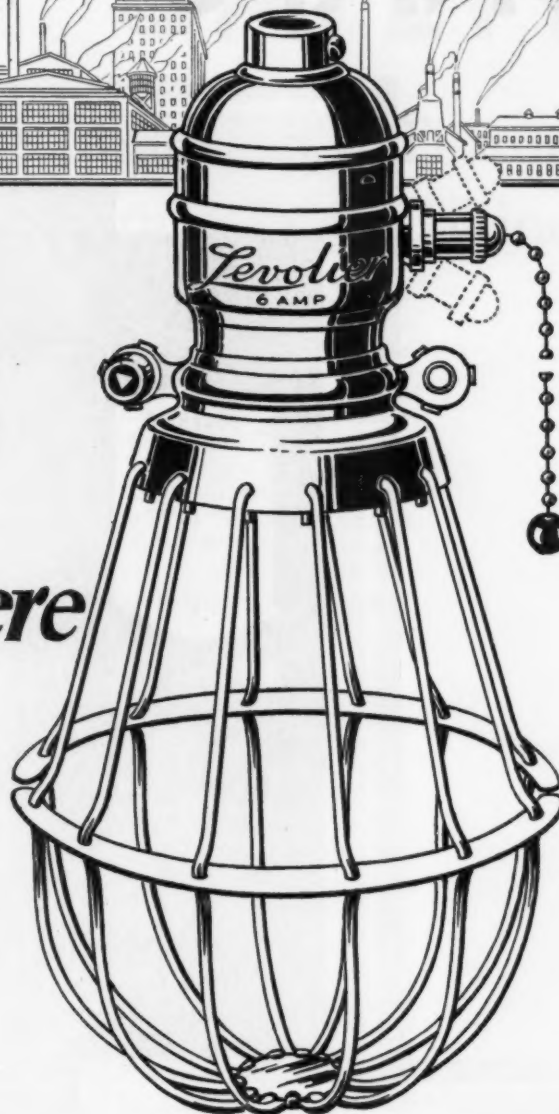
LOXON

LAMP GUARDS

Serving Everywhere

In factories, mills, garages, machine shops, north, south, east and west, wherever there are lamps to be protected, you will find Loxon Lamp Guards doing the *double duty* for which they are famous — protecting lamps against breakage and theft. And they do this double duty at a *single cost*.

Loxon Lamp Guards are made of heavy tinned wire and are equipped with a locking device operated by a key. Where danger lurks in the darkness and broken or stolen bulbs may mean injury or death, Loxon Lamp Guards assure illumination and safety at all times. And they are built to stand hard service, year after year.



For All Types of Sockets and Lamp Sizes

Loxon Guards are made for all types of sockets and lamp sizes. They are quickly and conveniently attached to the socket and locked with a key. Whatever your requirements there's a Loxon Guard to meet them.



Full Sockets
Full Husks
Conduit Box,
Fixture, Lever, Pull
and In-Between
Switches
Hickeys

McGILL

MANUFACTURING CO.

Electrical Specialties of Quality

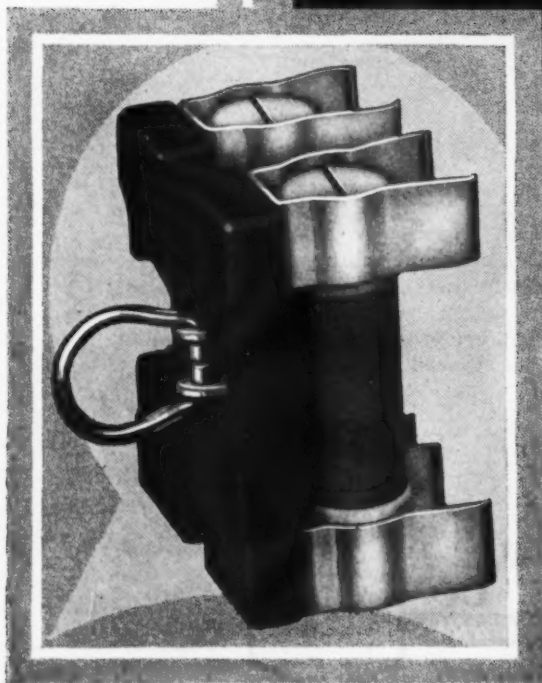
ESTABLISHED 1904

VALPARAISO • INDIANA



Lamp Guards
Lamp Coloring and
Frosting
Soldering Flux
Blow Torches
Lamp Changers

SNAPS *in...snaps*



At the left, above, is shown No. 39912 Square D Combination Fuse Cabinet, surface mounting type, with 60-ampere branch and eight 30-ampere branches.

At the left is the *pull-out plug* which features the new Square D Combination Fuse Cabinets. It is a Bakelite block, with ring, to which are attached the 60-ampere fuses. Pulling it out causes *instant disconnect*.

At the right, above, is illustrated No. 37722 Square D Combination Fuse Cabinet, flush mounting type, with 60-ampere branch and six 30-ampere branches.

OUT...for SAFETY

Strong-Jawed Fuse and Switching Unit is Feature of New **SQUARE D** Combination Fuse Cabinet

Exceptionally quick break is an outstanding advantage of the new line of Combination Fuse Cabinets which the Square D Company this month presents to the electrical industry.

These cabinets contain a 60-ampere, three-wire, solid neutral branch, as well as 30-ampere, two-wire solid neutral branches. In each cabinet, the 60-ampere fuses are attached to a Bakelite block with a ring, forming a *pull-out plug* that can be disconnected instantly.

These pull-out plugs have *strong jaws*. They exert a 12-lb. pull, *snapping* in and taking

hold tightly, exerting powerful pressure on the fuse holder, resulting in greater contact and safety. They *snap out* to provide *instant disconnect*.

When the plug is pulled out, the contact jaws are inaccessible, reversed below the surface with the "live points" embedded in insulating material, making them *dead front*. These two features—the pull-out plug, providing *instant disconnect*, and the *dead front* construction—insure *absolute safety* under all operating conditions, and especially when fuses are to be changed.

Provides a 60-ampere circuit for greater convenience in the home

The new Combination Fuse Cabinets are made in both flush mounting and surface mounting types. They are obtainable with two, four, six or eight 30-ampere circuits, with a single, 60-ampere circuit included in all sizes.

Unusual convenience and economy are afforded by the 60-ampere circuit being contained in the same cabinet with the "30's". In the home where there are heavy electrical appliances—ranges, water-heating units, oil burners, electrical refrigerating units for small apartments, etc.—using the Square D Combination Fuse Cabinet with 60-ampere fuses saves the cost of installing an extra fuse switch or extra cut-out, in the 60-ampere circuit, in localities where local inspection compels this method of installation.

At the three Square D factories, or at any of the 27 branch offices, quotations and full information will gladly be supplied regarding Square D Combination Fuse Cabinets and all other Square D products.

SQUARE D COMPANY, DETROIT, U. S. A.

Factories at: Detroit, Mich., Peru, Ind., and Milwaukee, Wis.

SQUARE D COMPANY, LTD., CANADA, WALKERVILLE, ONTARIO

BRANCH OFFICES: Toronto, Montreal

Square D Makes a COMPLETE Line of Electrical Control Equipment

Switch and Panelboard Division, Detroit

Industrial Safety Switches
Meter Service Switches
SQUARE-Duct (the rigid suspension method for wiring)
Panelboards for Both Lighting and Power
Fuse Cabinets
Outdoor Meter Boxes
Voltage Testers

Industrial Controller Division, Milwaukee

Automatic Starters
Combination Starters (Automatic Starters with Motor Circuit Switches)
Compensators, Both Automatic and Hand Operated
Speed Regulators
Motor Circuit Switches
Magnetic Contactors
Pressure Switches
Disconnect Switches
Float Switches

Porcelain Division, Peru, Indiana

Porcelain Insulators
Special Porcelain Products

BRANCH OFFICES

Atlanta
Baltimore
Boston
Buffalo
Chicago
Cincinnati
Cleveland
Dallas
Davenport
Denver
Detroit
Grand Rapids
Indianapolis
Kansas City

SQUARE D

ELECTRICAL



EQUIPMENT

BRANCH OFFICES

Little Rock
Los Angeles
Milwaukee
Minneapolis
New York
Philadelphia
Pittsburgh
Portland
Richmond
San Francisco
St. Louis
Seattle
Syracuse

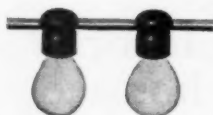
(153)



Light Up for
the Golden Jubilee
with
P&S Decorative Materials



P&S Decorative Lighting Sets
These sets are supplied equipped with either Intermediate Base or Standard Edison Base sockets. They are completely wired ready for immediate use.



**P&S Ready-Wired
Festoon Streamers**

These streamers are completely wired ready for immediate use. They can be supplied equipped with Bakelite Intermediate Base or Standard Edison Base sockets. Streamers with Edison Base sockets are furnished with either Cold Molded or Porcelain sockets.

This type of socket which is supplied made of either Porcelain or Cold Molded material is designed for temporary work. By its use a quick and economical installation can be made. It eliminates tapping of wires and soldering of connections.



If you have not received a copy of our folder on P&S Ready-Wired Materials, write us. We will gladly send you a copy.

PASS & SEYMOUR, Inc.

Division C, Solvay Station, Syracuse, N. Y.

New York
71-73 Murray St.

Philadelphia
2401 Chestnut Street

Chicago
605 W. Washington Blvd.

other parts of the state and motor manufacturers' representatives a banquet and entertainment.

The report pointed out that manufacturers can more profitably serve all Class A business through established dealers as well as more of the Class B business; that for a more healthy motor distributor a revision of discounts on various classes of business is imperative; that manufacturers' repair shops should be conducted as service shops limited to the repair of their own equipment and refraining from general solicitation of repair business, and finally that Class D agreements should be offered only to firms which can completely qualify to render the manufacturer the service in sales, market development, repairs and service which will make for a full development of the motor industry.

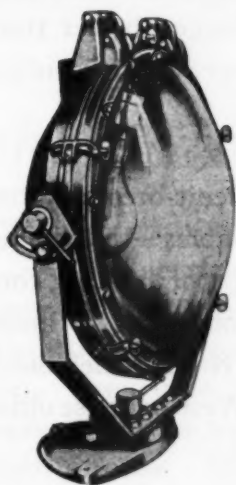
* * *

**Modernizing Program
for Rochester**

The Electrical League of Rochester, N. Y., has indorsed the Home Modernizing Program. On request, the Electrical League sends a representative to consult with and advise owners of old homes regarding re-wiring and in the case where electricity has not been installed, the wiring.



BARTLETT LEAVES MILWAUKEE LEAGUE:—J. S. Bartlett, has resigned his position as manager of The Electrical League of Milwaukee to take a position with the Society for Electrical Development in New York City. W. O. Zervas, field representative, is to assume management of the League.



Type LCE24

More Cars Handled at Night

The installation of floodlights will increase the speed of car handling to a marked degree in any railroad yard. Accidents are reduced to a minimum due to the fact that the switch engines may operate without headlights, thus eliminating their blinding glare.

Type LCE24 Floodlight shown at the left is a very satisfactory unit for railroad yard lighting. The housing is of non-corrodible cast aluminum alloy, dust-tight and weather-proof. Because of its efficient design, it is possible to light large areas with a smaller number of projectors, with a corresponding decrease in installation cost, lighting load, and maintenance costs.

Recommendations for lighting any railroad yard will be furnished upon receipt of detailed plans.



CROUSE-HINDS COMPANY

ESTABLISHED 1897
SYRACUSE, N. Y., U. S. A.

SALES OFFICES

NEW YORK
PHILADELPHIA
PITTSBURGH

DETROIT
CINCINNATI

BOSTON
CLEVELAND
ATLANTA

ST. LOUIS
SAN FRANCISCO

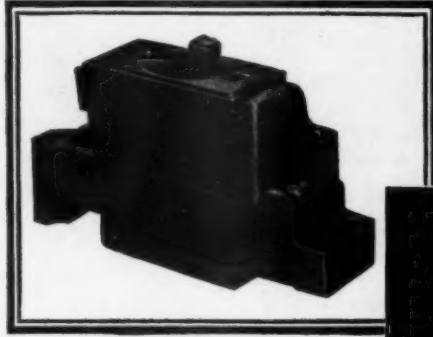
CHICAGO
MINNEAPOLIS
MILWAUKEE



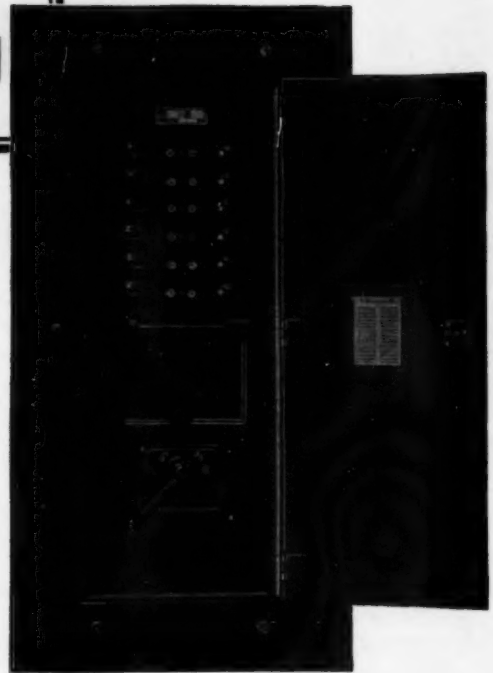
CROUSE-HINDS

CONDULETS - GROUNDULETS - PLUGS and RECEPTACLES - FLOODLIGHTS - TRAFFIC SIGNALS
AIRPORT and AIRWAY LIGHTING EQUIPMENT - PANELBOARDS and CABINETS - SWITCHES

CH456



Nofuz Opens 3500 Amperes *without a flash!*



WHEN the 15-ampere circuit-breaker installed in the branch circuits of the Nofuz panelboard opened a circuit adjusted for 5000 amperes on short-circuit without a flash, it decisively proved its ability to withstand the rigors of everyday service.

The breaker opened 3500 arc amperes repeatedly, yet the safety features that make the Nofuz panelboard ideal for all lighting appli-

cations functioned as usual. Under the strain of this terrific overload the contacts emerged better than ever, with decreased contact resistance.

This is the circuit-breaker that prevents fuse troubles—that makes possible a fool-proof lighting control. If you would like to know more about the Nofuz panelboard, ask the nearest Westinghouse office for D.M.F. 5150.

WESTINGHOUSE ELECTRIC & MFG. COMPANY
BROOKLYN WORKS

BROOKLYN, N. Y.

SALES OFFICES AND SERVICE SHOPS IN ALL PRINCIPAL CITIES



Westinghouse

T 30787

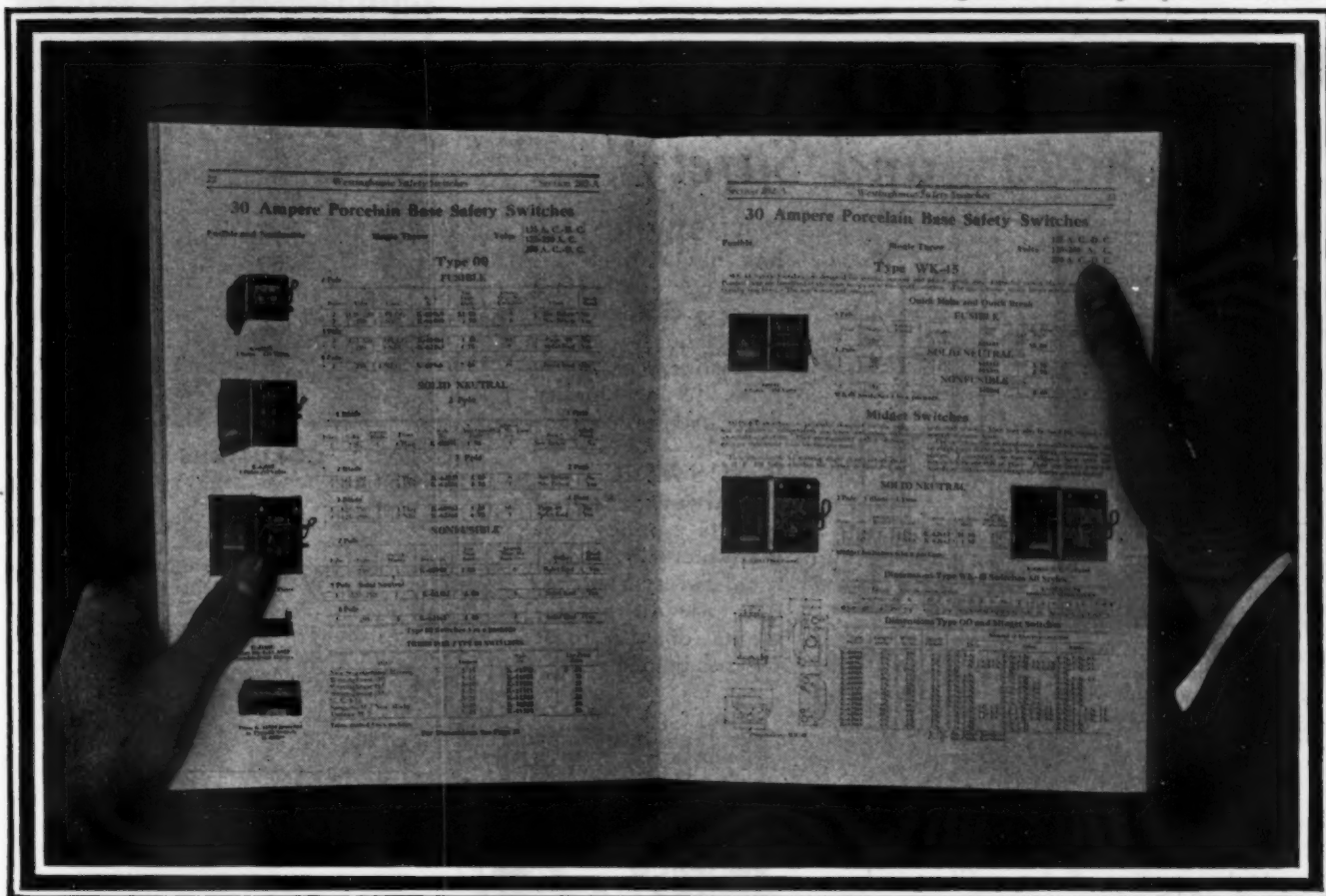
Products for the Electrical Contractor include:

Circuit-breakers
Fans
Fuses
Insulating Materials
Mazda Lamps

Meters
Lighting Fixtures
Motors and Control
Panelboards
Ranges

Safety Switches
Solar Glow Heaters
Switchboards
Transformers
Water Heaters

INSTALL PROTECTION ON EVERY JOB Westinghouse Safety Switches



Turn to these pages when you need 30-ampere safety switches

FOR your small safety switch jobs —on electrical refrigerators, on motor-driven appliances, on equipment in the garage, the battery shop, the shoe repair shop and elsewhere, turn to pages 22 and 23 in the Westinghouse Safety Switch Catalog. There you can find the switch to do the job for you.

You'll find these Westinghouse Safety Switches well designed, compact, sturdily built of the best materials. They are easy to wire and install. You'll find that Westinghouse Safety Switches are no more expensive than others.



And you'll find, too, that the Westinghouse name helps to sell the job. It stands for quality with the home owner and the small industrial buyer just as it does with the purchasing agents of the largest industrial and electric service companies.

Remember these two pages in the Westinghouse Safety Switch Catalog and remember that there are seventy more pages in the catalog, most of which tell about other Westinghouse Switches that you can use to good advantage.

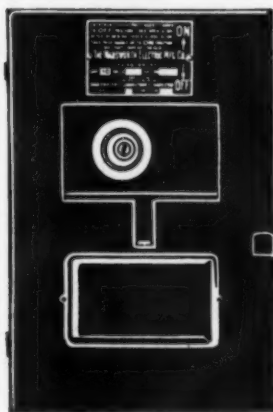
WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY
Mansfield Works, Mansfield, Ohio

Sales Offices and Service Shops in All Principal Cities

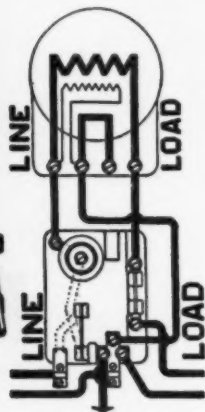
Westinghouse

WADSWORTH IDEAL

"Quality and Safety"



Switch Cabinet Closed,
Switch Open.
Service Fuse Accessible.
100 Per Cent Safety.



Wiring Diagram.
Catalog No.
1451.

Adhering to this policy—Quality at a reasonable price—assures high quality Safety Electrical Switches that are dependable.

Adding to this your own electrical installation experience you have a combination that assures success in building up your contracting business.

Bulletin No. 21 completely describes Accessible Fuse Safety Switches.

"There is a Wadsworth switch for every installation."

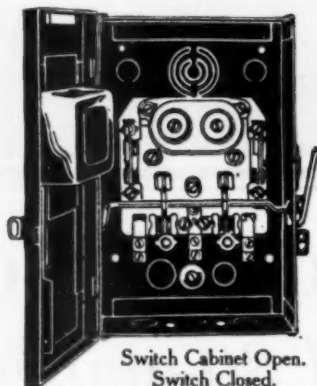
The WADSWORTH ELECTRIC MFG. CO. INC.
Corning, Kentucky.

WADSWORTH

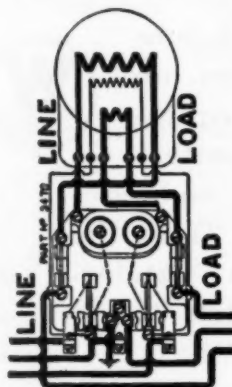
METER SERVICE & INDUSTRIAL TYPE
SWITCHES

WADSWORTH—has never been influenced by the process of depreciating its quality down to a price.

Built to a Quality Standard at a reasonable — Price — WADSWORTH—has always adhered to its policy of manufacturing Electrical Safety Switches that meet all requirements of the most careful inspection.



Switch Cabinet Open.
Switch Closed.
Note easy wiring facilities.



Wiring Diagram.
Catalog No.
1423.



HEADS COLUMBUS CONTRACTORS:—On the right end is M. C. Brooke of the Brooke Electric Company, Columbus, O., this year's president of the local electrical contractors association. Next to him is his brother, J. D. Brooke. Next comes Mrs. M. C. Brooke followed by her niece. The Brooke's had the honor of rewiring the governor's mansion in Columbus and when we say honor, we mean that it was a very particular job and that the installation was brought right up to date.

Baltimore Reinstates Armored Cable

The Electrical Code of Baltimore recently enacted prohibiting use of armored cable in buildings inside the fire limits, has been modified and permits the use of the new armored cable with bushing.

The misunderstanding over the appliance branch circuit has been straightened out by the following paragraph: "No convenience outlet branch circuit shall supply a load greater than 1,320 watts, nor shall there be more than four duplex or eight single convenience outlets or the equivalent on any one such circuit."

The rule limiting six outlets on lighting circuits, the use of armored cable in basements and the use of knob and tube work inside the fire limits is still under consideration.

* * *

First Electrical Trade Practice Conference

The first trade practice conference under the auspices of the Federal Trade Commission to be held in the electrical industry will be conducted during the annual meeting of the National Electrical Manufacturers' Association at



STEELTUBES [E. M. T.]* has the same inside diameter as heavy conduit. Made in three sizes ($\frac{1}{2}$ ", $\frac{3}{4}$ " and 1") with diameters and wall thickness shown above. One coupling furnished with each ten-foot length.

10

STEELTUBES Advantages

- 1—Saves thread-cutting
- 2—Bends easily
- 3—Light—handles easily
- 4—Takes any fitting
- 5—Speeds up the job
- 6—Resists corrosion
- 7—Costs less
- 8—Standard price
- 9—Carries Underwriters' Label
- 10—Local stocks always available.

The Wedged-on Cap ... Saves TIME

BOTH ends of every length of STEELTUBES [E. M. T.]* are protected by this patented, wedged-on steel cap. It's there to stay . . . safe against accidental loosening, but easily removed with a twist of the pliers.

STEELTUBES Caps assure you that every length will be received just as it left the factory . . . with ends true to round . . . without rough edges . . . without dirt or rust to slow up the job . . . with galvanizing coating intact.

The Wedged-on Steel Cap is another one of the features that makes the STEELTUBES job go forward so rapidly . . . so economically.

Have you a STEELTUBES sample package? If not, we will gladly send you one.

Electrical Division

STEEL AND TUBES, INC.


Cleveland, Ohio

(A subsidiary of Republic Iron & Steel Co.)

{ *STEELTUBES Electrical Metallic Tubing is threadless, strong, light and easy to handle. Costs less to buy. Saves time and money on the job. }

Steeltubes

The Sturdy



Strain Relief Cord Grip

Pull Chain Socket

Benco

A Superior Industrial Socket

A husky, weatherproof socket, guarding property and profits in millions of places throughout the industrial world. A positive protection against the ravages of dampness, dirt and corrosion.

Heavy interior porcelain insulation and thick exterior shells of copper or aluminum prepare the Benco Sockets for limitless service outdoors or indoors. The unusually strong X-type fitting will "stand a wrench."

The Benco Pull Chain Socket is as weatherproof as the Keyless. A straight-down inner-pull chain control permits a full covering of the mechanism. And where necessary the Benjamin Strain Relief Cord Grip eliminates all strain on the wire connections.

A standard thread on Benco Sockets takes any style of reflector required.

Our nearest office will gladly furnish full information on Benco Sockets and Benco Threaded Accessories.

Benjamin Electric Mfg. Co.

General Offices and Factory
DES PLAINES, ILL.
(Chicago Suburb)

New York Chicago San Francisco

BENJAMIN
TRADE MARK

Wardman Park Hotel, Washington, D. C., October 7 to 12. Conferences are scheduled for eight industry groups represented by the mica panelboard, flexible cord, vulcanized fibre, carbon, molded insulation, carbon arc lamp and outlet box and conduit fittings sections of N. E. M. A.

Election of officers, governors and section chairmen will be included in the program outlined for the annual meeting of the association.

The program for the general session of the policies division to be held on Tuesday evening, October 8, includes the following addresses: President's address, H. B. Crouse; "The Future N.E.M.A.," Alfred E. Waller, managing director, N.E.M.A.; "Market Development," W. E. Sprackling, chairman, Electrical Industry Sales Conference; "The S. E. D.—What It Means to Manufacturers," "Tariff Situation Today," Thomas Allen, chairman.

* * *

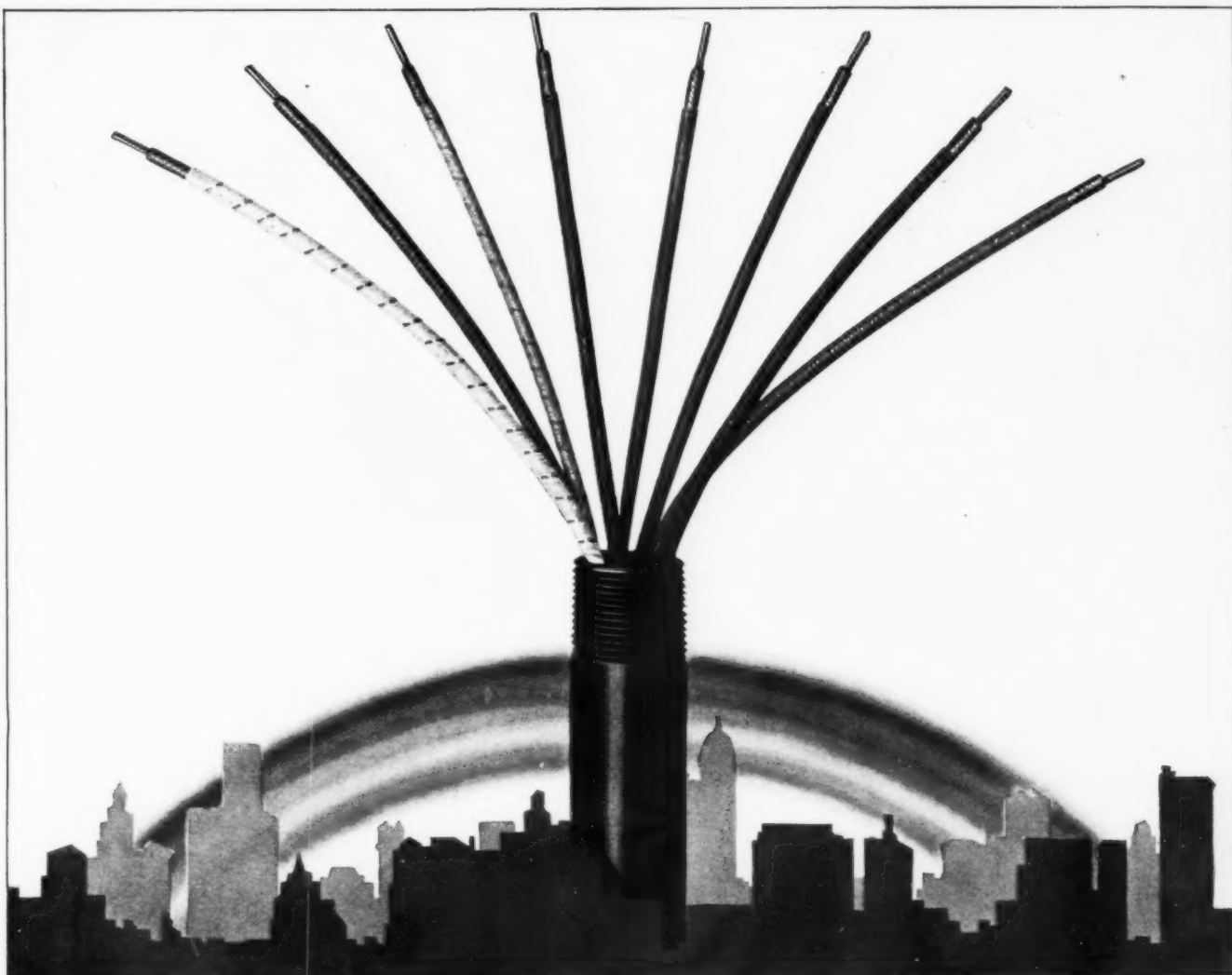
New Edition Canadian Transformer Standards

The Canadian Engineering Standards Association has just published a second edition of its Specification for Single-Phase Distribution Transformers. The first edition was published in 1920 and this second edition is the result of the experience which has been gained in the practical use of the specification. Revisions which have been made are indicated in the preface.

* * *

Over Hundred Contractors Use Boston Service

More than one hundred electrical contractors now use the special contractors' information service of the Boston Edison Co., which has been operated for their exclusive use for the past three years. Applications for service may be telephoned, thus avoiding delay incurred in mailing—questions about permits are answered—information is given concerning service and meter installation. Ralph Lincoln, who has had charge of this service since its inception, handles more than 1,500 information calls each month.



"U.S." Rainbow Line

50% Easier Pulling
Circuit Testing in one-third the time

United States  Rubber Company

We'll gladly serve you through your jobber

TRADE MARK

1790 BROADWAY . . . NEW YORK

United States Rubber Company, Room No. 482, 1790 Broadway, New York, N. Y.

- ☐ Please send me free samples of the 8 colored wires comprising the "U. S." Rainbow Line.
☐ Please send me proof of the above statements.

Name _____ Address _____

Company _____ Title _____

THE RAINBOW LINE OF "U. S." PARACORE WIRES AND CABLES



**FA Fusbox An Inexpensive
“Sign of a Better Job”
for small residences and stores**

You have always wanted, if you are an electrical contractor who takes pride in his work, to put in on your small jobs an FA Distribution Center that would be a “Sign of a Better Job”. So we made this new FA Fusbox for you!

For the small residence or store this inexpensive, safety-type unit is ideally practical. It has a fine appearance, is easily installed and wired and is built with the same high class materials and workmanship for which FA is noted. Made in four and six circuit, 3 main sizes, with bases of black molded asbestos composition, enclosed in one piece galvanized steel box allowing a

1½" gutter space. The front is one piece steel white enameled. The bases are on steel studs so that they may be removed without disturbing the box, and which also give an ample in-and-out adjustment.

The price on this FA Fusbox is low enough to enable you to use it on all jobs and take pride in them. They last as long as the building in which they are installed, without maintenance and add visible value to any house built to be sold.

Compare prices and values — and you will use the FA Fusbox, the cheapest good distribution center on the market.

Send for Special Bulletin or see your local FA man

Frank Adam
ELECTRIC COMPANY
ST. LOUIS

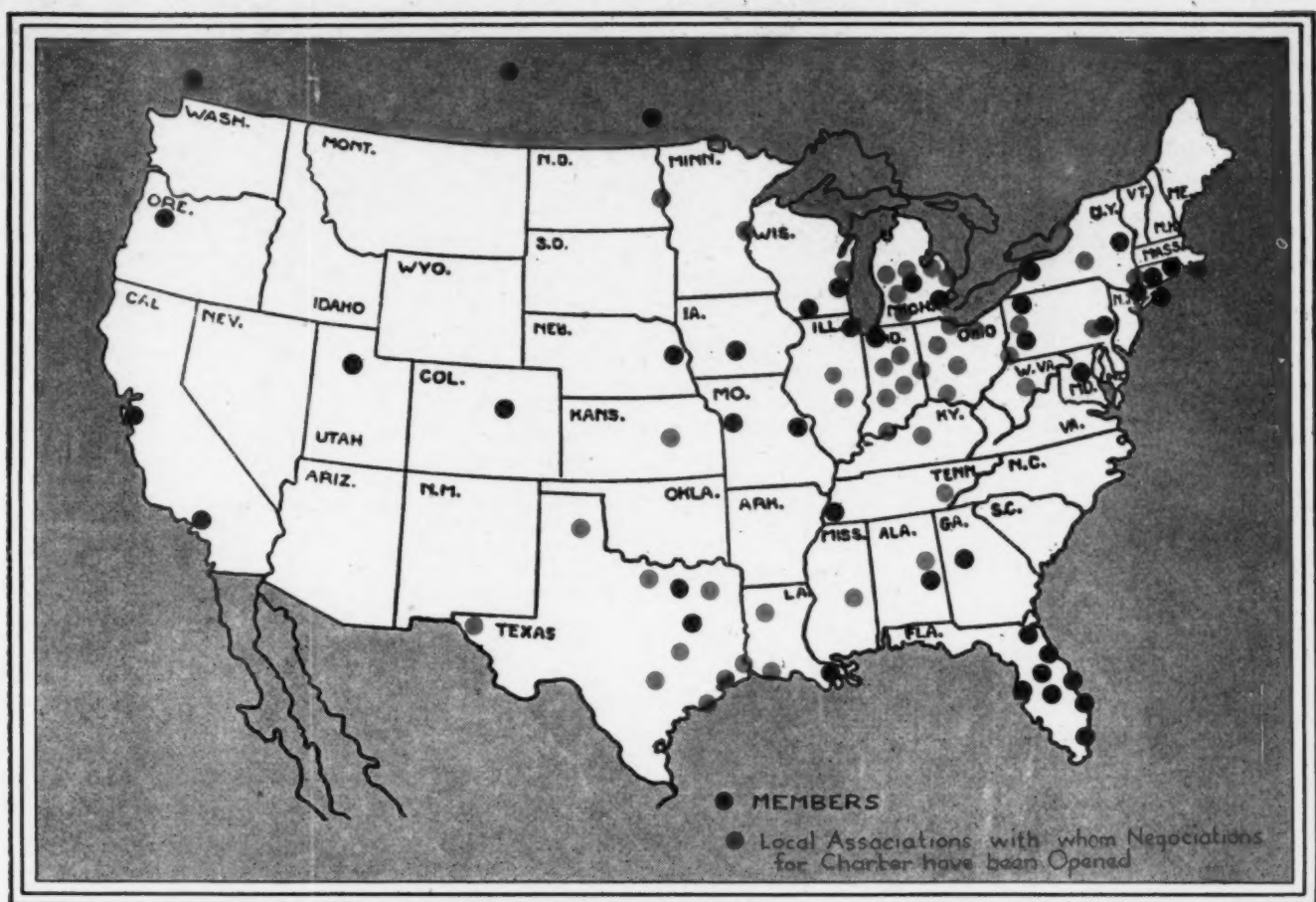
Atlanta, Ga.
Baltimore, Md.
Boston, Mass.
Buffalo, N. Y.
Chicago, Ill.

Cincinnati, Ohio
Dallas, Texas
Denver, Colo.
Detroit, Mich.
Jacksonville, Fla.

Kansas City, Mo.
Los Angeles, Calif.
Memphis, Tenn.
Minneapolis, Minn.

New Orleans, La.
New York, N. Y.
Omaha, Nebr.
Philadelphia, Pa.
Pittsburgh, Pa.

San Francisco, Calif.
Seattle, Wash.
Tulsa, Okla.
Vancouver, B. C.
Winnipeg, Man.



Growth of Chapter Movement Shown in Location of Member Chapters and Local Associations Which Have Applied for Chapter Membership.

A. E. I. Exhibit

A. E. I. Membership Classification
by Population of Cities

CITIES HAVING POPULATION OF	No. Cities Re- sented	Contractor-Dealers with Stores	Contracting Only	Merchandising only	Specializing in Resi- dence Wiring	Motor Specialists	Displaying Lighting Fixtures	Total Active Mem- bership
25,000 or under	384	439	58	3	149	80	424	502
25,000 to 50,000	82	154	54	1	56	31	143	226
50,000 to 100,000	73	159	54	3	73	42	139	238
100,000 to 500,000	67	308	214	6	111	86	271	516
500,000 and over	16	204	342	2	71	88	177	540
	622	1264	722	15	460	327	1154	2022
Associate and Foreign Members								74
Honorary Members								7
Total Membership								2103
CLASSIFICATION OF BUSINESS	NO. OF MEMBERS		PERCENT- AGE					
E— Contractor-Dealers with Retail Stores	1264		60.4%					
C— Doing Contracting Only	722		34.5%					
D— Merchandising Only	15		.8%					
R— Specializing in Residence Wiring	460		22.0%					
M— Motor Specialists	327		15.6%					
F— Displaying Lighting Fixtures	1154		55.3%					

A. E. I. Membership Classification According
to Annual Volume of Business
and
Total Volume of Business Done

Class	Annual Volume of Business	Active Mem- bers.	% Total Member- ship	Total Annual Volume of Business Done
A	\$25,000 or under	810	40.1%	17,858,000
B	25,000 to 50,000	661	32.6%	27,125,000
C	50,000 to 100,000	295	14.6%	23,646,000
D	100,000 to 150,000	119	5.9%	16,112,000
E	150,000 to 200,000	65	3.2%	11,398,000
F	200,000 to 300,000	38	1.9%	9,516,000
G	300,000 to 400,000	16	.8%	5,600,000
H	400,000 to 700,000	10	.5%	5,500,000
I	700,000 to 1,000,000	4	.2%	3,400,000
J	1,000,000 and over	4	.2%	6,000,000
		2022	100%	126,155,000
Associate and Foreign Members		74		
Honorary Members		7		
TOTAL		2103		

Industry Activities and Affiliations in Which the A. E. I. Participates

National Electrical Code:

Electrical Committee, N.F.P.A.
A.E.I. has two members and two alternates
Has representation on the various Article Committees

Underwriters' Laboratories' Standards:

Underwriters' Laboratories, Inc., as proprietary sponsor for "Specifications and Standards for Electrical Devices and Materials" in the A.S.A., submits all standards to the A.E.I. for assent

National Fire Protection Association:

A.E.I. holds membership in the N.F.P.A.

American Standards Association:

A.E.I. is a Cooperating Body
Has representation on the following projects:
Electric Wiring and Apparatus in Relation to Fire Hazard (National Electrical Code)
National Electrical Safety Code
Standard Symbols for Electrical Equipment of Buildings (Association of Electragists, joint sponsor)
Definitions of Technical Terms used in Electrical Engineering
Radio
Motors

American Institute of Electrical Engineers:

A.E.I. has joint sponsorship with A.I.E.E. for A.S.A. Standards Symbols
Has representation with A.I.E.E. on Sectional Committee, A.S.A., for "Definitions of Technical Terms used in electrical engineering, including correlation of definitions and terms in existing Standards"
Submittal of Definitions embodied in Electragist Standards for Wiring

American Institute of Architects:

A.E.I. has joint sponsorship with A.I.A. for Standard Symbols for Wiring
Jointly developed, with A.I.A. and N.E.M.A., the Electrical Section of Standard A.I.A. Filing System for Catalogues
A.E.I. approves and endorses A.I.A. Standard Documents

National Safety Council:

Cooperation in study of Accident Prevention

International Association of Electrical Inspectors:

A.E.I. holds Cooperating Membership in I.A.E.I.

International Association of Municipal Electricians:

A.E.I. holds Associate Membership in I.A.M.E.

American Arbitration Association:

A.E.I. holds Membership
Cooperating in the adoption of Draft State Arbitration Act by State legislation throughout the country
Educational work on Commercial Arbitration

Allied Construction Industries Committee:

A.E.I. has two members on this national committee representing thirteen national associations of general and specialized contractors
Investigating Trade Abuses and Economic Conditions in the construction industry
Has prepared "Principles of Fair Practice" for guidance of relations between general and sub-contractors

Associated General Contractors of America:

Cooperative studies of Trade Practices and Abuses
Educational Accident Prevention Campaigns

International Brotherhood of Electrical Workers:

Union Shop Section, A.E.I., contacts with I.B.E.W.
Five representatives of Union Shop Section, A.E.I., and five representatives of the I.B.E.W. constitute the Council on Industrial Relations in the Electrical Construction Industry

Joint Trades Conference on Electrical Merchandising:

National conference of representatives from
Association of Electragists, International
National Retail Dry Goods Association
National Retail Hardware Association
National Retail Furniture Association
National Association of Retail Druggists
National Hardware Association of the U. S.
National Electric Light Association

National Association of Credit Men:

Cooperation in the Establishment in the Electrical Industry of an Adequate Credit Control Plan

National Electric Light Association:

A.E.I. Committee with N.E.L.A. on Central Station-Contractor Dealer trade relations
Joint Committee on Range Wiring:
A.E.I., N.E.L.A., N.E.M.A.
Representation at Commercial National Section, N.E.L.A. meetings
Contractor member of N.E.L.A. Board of Directors nominated by A.E.I.

National Electrical Manufacturers Association:

A.E.I. has Joint Committees with N.E.M.A. on
Motor Merchandising
Range Wiring
Standard Filing System for Catalogues
Has contacts with N.E.M.A. on Code matters, legislation, standardization, trade relations, etc.

National Electrical Wholesalers Association:

Contacts and joint conferences on
Trade Relations and Credit Control
Cooperative studies of standardization and simplification problems
Cooperation in extending use of A.E.I. Standard Accounting System

Artistic Lighting Equipment Association:

Fixturing and refixturing problems

Electrical Industry Sales Conference:

A.E.I. has five representatives on Industry Sales Conference Committee for development of comprehensive plan for increasing wiring markets and improving marketing outlets

Society for Electrical Development:

A.E.I. represented by its president, general manager and four other members upon Board of Directors.
A.E.I. general manager on Executive Committee.
Has representatives upon the following Advisory Committees of S.E.D.:
Uniform Ordinance Work
Wiring Promotion—Red Seal Plan
Out-Door Decorative Lighting
League and Field Work
Publicity and Advertising Service

Chamber of Commerce of the United States:

A.E.I. holds membership
Has National Councillor representative
Participates in referendum votes on national industry questions

U. S. Department of Commerce:

A.E.I. cooperates with
Bureau of Standards
Bureau of Simplification
Bureau of Industry Census
Assists in compilation of statistics and surveys
Distributes Department of Commerce bulletins to members

Federal Trade Commission:

A.E.I. confers with Commission on matters of trade policy and trade relations
Medium for Trade Practice Conference

Copper and Brass Research Association:

A.E.I. cooperated in developing Rewiring Booklet

*A. E. I. Helps to Local Organizations in Local Activities***Suggested Form of Constitution and By-Laws:**

Drafted in conformity with the provisions of the A. E. I. Constitution and By-Laws and subject to amendment and modification in detail to meet local needs.

Electragist Canon of Ethics and Code of Practice:

Serving as basis for improved business relationships between members, and between the local organization and the public.

Charter Affiliation of Eligible Associations as Local Electragist Chapters:

Right to pass upon applicants for A. E. I. membership within Chapter jurisdiction.

Right to cast votes of entire chapter membership through accredited delegates on questions coming before all conventions and special meetings of the A. E. I.

Direct voice in the affairs and management of the A. E. I.

Prestige of A. E. I. supporting local Chapter activities.

Assistance in Organizing Local Electragist Chapters:

Direct mailings to prospective members.

Suggestions for local activities and programs based upon cumulative experience of successful local associations elsewhere, available through A. E. I. as a clearing house.

Suggested outline of duties of paid local secretary or manager.

Visits of A. E. I. Staff Members, Field Representatives and Leaders of Neighboring Electragist Chapters:

Provides contact with A. E. I. familiarity with current A. E. I. activities, and broadened understanding of A. E. I. policies.

A. E. I. Co-operation on Issues of Local Origin Affecting the International Membership as a Whole:

Trade Policy Committee.

Central Stations Relations Committee.

National Electrical Code Committee.

Legislation Committee.

Architects and Engineers Committee.

Standardization Committee.

Cost Data Committee.

Wiring Methods Committee.

Credit and Accounting Committee.

Availability of A. E. I. Executive Committeemen for Assistance of Local Chapters Within Their Respective Divisions.**Information Regarding the A. E. I.'s Position on National Policies in Force and Proposed, as Basis for Co-ordinated Local Activities:**

Central Station, Manufacturers', and Wholesalers' Trade Policies.

Code and Inspection Matters.

Pending Legislation.

Inter-Industry Relationships.

Mass Production of Forms and Systems for Adoption by Local Chapters:**Analysis of Local Surveys:**

Exchange of information regarding group experience of members on

Business Characteristics and Capacity.

Operating Costs.

Quantity Surveys.

Market Development.

*Association of Electragists,
International**Membership List by States*

Cal.	258
N. Y.	215
Mich.	146
Ill.	140
O.	124
Fla.	119
Pa.	108
Wis.	90
Ind.	83
Can.	51
Mass.	55
Mo.	55
Md.	50
N. J.	44
Ala.	41
Ia.	41
La.	40
Kan.	36
Tex.	36
Ut.	35
Tenn.	31
Ore.	30
Conn.	29
Ga.	24
Colo.	22
Minn.	21
Wash.	19
Miss.	19
Ky.	18
Neb.	17
R. I.	15
D. C.	11
Va.	10
For'n	9
Okla.	7
Hon'y	7
N. C.	6
Ida.	6
N. H.	6
W. Va.	6
S. D.	5
Ariz.	3
Ark.	2
Del.	2
Me.	2
N. D.	2
S. C.	2
Vt.	2
Wyo.	1
Nev.	1
Mont.	1
TOTAL	2103

Information Available to Members on Request Regarding

Organization Structure and Procedure of the A. E. I.

Standing Committees of the A. E. I.:

Trade Policy

Central Station Relations

National Electrical Code

Wiring Methods

Legislation

Architects and Engineers

Standardization

Cost Data

Liability Insurance

International Relations

Radio

Membership and Jurisdiction

Progress of Specific Projects Undertaken by Groups with whom the A. E. I. has contact.

National Electrical Code:

Current Revisions

Recommendations for Revisions

Status of National and State measures affecting members:

Draft State Arbitration Act

State and Local Licensing

Legislation

Uniform Ordinance

Segregation of Sub-Contracts

Mechanics Lien Law

Electragist Advertising:

Individual and Co-operative

Credit Control Activities and Extent of Acceptance.

Current National Activities of the Electrical Industry.

Group Insurance.

Chapter Organization and Provisions for Charter Affiliation.

Local Group Activities of Electragist Chapters.

Individual Business Problems:

Technical Electrical Subjects

Estimating

Accounting

Operating Methods

Uniform Clauses for Proposals

Trade Relationships

Sources of authoritative Data and Information on Subjects pertinent to the Electragists' Business not directly available from the A. E. I.

Systems, Forms, Manuals, Surveys, Reports and Other Materials Available from Association of Electragists, International

ACCOUNTING

Manual of Accounting Practice:

Complete description and guide for the use of the Electragist Standard Accounting System

Electragist Standard Accounting System:

Designed especially for the use of electrical contractors and dealers, providing flexible and convenient method of accounting for businesses of varying sizes and types, with provision for departmentalizing

Standard Loose-Leaf Sheets for Standard Accounting Systems:

Pay Roll Record
Sales Recapitulation
Accounts Receivable
Accounts Payable
Cash Received
Cash Paid
Combined Cash Paid and Voucher Disbursement Journal
Analysis of Overhead Expense
Cumulative Statement of Overhead Ratios
Profit and Loss Statement
General Ledger
Bound Trial Balance Book (5 years' entries)
Standard Binders and Indexes for above sheets

Job Record Forms:

Daily Time Card—for individual workmen
Daily Time and Work Report—for foremen on larger jobs
Labor Summary—for recording total labor on individual jobs
Requisition for material
Returned Material Card
Material Summary—for recording total material on individual job
Job Envelope—for filing all records and information on jobs in progress
Special Job Sheet—combination estimate sheet and job record for small jobs

ESTIMATING

Electragists Estimating Manual:

Enlarged and revised to October 1, 1929, complete with tables and including subject matter of complete series of articles on estimating by Arthur L. Abbott, formerly Technical Director of A.E.I.

Estimating Forms and Take-Off Sheets:

Branch Circuit Schedule—for listing number and type of outlets, and quantities of material required in the branch circuit work
Feeder Schedule—for quantities of conduit and wire; number of ells, terminals and bends; and number and length of conduit and wire runs for Services, Feeders and Sub-Feeders
Conduit and Wiring Summary—for totalling quantities of Conduit Wire and other large material items
Pricing Sheet—for entering complete material quantities, net unit prices and extensions, together with labor units and extensions
Recapitulation—for totalling material and labor extensions for entire job and entering and totalling all items of non-productive labor, direct job expense, overhead and profit
Universal Estimate Sheet—Condensed summary of material quantities and extensions with labor units and extensions, and for important information regarding the job. For use separately or with above forms

GENERAL FORMS

Uniform Proposal Sheets
Annual Financial Statements and Overhead Analysis
Wall Cards Showing Standard Symbols

ELECTRAGIST DATA BOOK

Contents

List of A.E.I. Officers and Committees (revised annually)
Complete A.E.I. Membership List (revised annually)
A.E.I. Code of Practice and Canon of Ethics
A.E.I. Constitution and By-Laws (revised as amended)
Complete material Cost and Price Record File
Tables of Wages and Rates of Charge for Labor in more than 600 cities (revised annually)
Tables of Information on Ordinances and Local Inspection Authorities in more than 600 cities (revised annually)
Condensed Manual of Estimating with Tables
Discount Tables
Scale for Computing Job Overhead
Liability Insurance Data in Various States
Samples of Standard Forms available from A.E.I.
Standard Symbols for Wiring Plans
Tables of Weights and Measures, Decimal Equivalents
Circular Mil and Square Mil Equivalents, Mensuration Units, and Definition of commonly used Electrical Units
Wire Gauges and Tables of N.E.C. Carrying Capacities and Conduit Sizes for Wires and Cables
Table for computing Voltage Drops
Miscellaneous Data on Conduit and Fittings
Miscellaneous Data on Motor Wiring
Data on Pulleys and Gears
Illustrations of Standard Transformer Connections
Miscellaneous Data on Copper Bars, Rods, and Tubing
Miscellaneous Information on Storage Batteries
Complete Data on Illumination Design with Tables for Determination of Proper Lighting Units and Intensities for various types of utilization
Description with illustrations of The Prone Pressure Method of Resuscitation from Electric Shock

ADVERTISING AND PUBLICITY MATERIALS

Advertising Booklet Showing Use of Cuts
Decalcomania Electragist Seal for Office Doors, Store Windows, Auto Windshields, etc.
Line Cuts and Seals for Stationery and Advertising
Membership Sign—Black Enamel on Brass
Charter Certificate for Local Chapters

MISCELLANEOUS PUBLICATIONS

Electragist Standards for Wiring Installations
A.I.A. Standard Filing Classification and Index
Analysis of 1928 National Electrical Code
Printed Proceedings of Annual Conventions (annual)
Trade Reports and Surveys
Reports of A.E.I. Trade Policy Committee
Economic Factors Affecting Wiring Development
The House-Wiring Situation
The Detroit Credit Plan
Declaration of Merchandising Principles
Reprints of Current Articles and Addresses:
Credit and Credit Policies—Vose
Boston Edison-Contractor-Dealer Partnership—Caddigan
The New Co-operation—Comstock
A Midsummer Night's Dream—Gilchrist
Merchandising by Central Stations—Cabot
Present Trend of National Electrical Code—Tousley
The Electrical Inspector—Tousley
Reference Library of Official Organ of Association from 1901 to date



Reasons why YOU should be a Specialist in G-E electrical installations

1. **Wide Public Appreciation** of General Electric products and the prestige of a company known the world over through comprehensive advertising campaigns, radio broadcasting, educational literature, direct mail, signs, etc.
2. **Quality of Products**—Established leadership in design and application must be maintained through constant improvement in products.
3. **Products Proved** before introduction . . . by wide and thorough laboratory and field tests.
4. **Historical Background**—A company that numbered Edison among its pioneers and has maintained his spirit of invention and research in the development of products of the greatest economic worth.
5. **Research Laboratory**—Constant improvement of products . . . The incandescent lamp of to-day enables the country as a whole to enjoy four times as much light at the same cost as was possible 20 years ago.
6. **Household Names**—MAZDA Lamps, G-E Refrigerator, G-E Wiring System, etc. This tie-up builds good will and prestige for electrical contractors.
7. **Service on Supplies** through G-E distributing houses in all sections.
8. **Merchandising Advisers**—At Bridgeport and distributing centers are G-E specialists who are available to help you with your sales problems.
9. **Co-operation**—Under this heading are included the many types of sales assistance that it is possible for a big company to offer its customers.
10. **Architects and Builders**—Cultivate these important forces in developing new business. As a specialist in G-E electrical installations you are afforded a complete line of electric equipment for buildings. G. E. helps create the demand for its products ahead of time and you will often find the job specifies G-E products.
11. **Come to Electrical Headquarters** . . . Bigger and better business for you—We help you sell and can show you how to solve your difficult installation problems.

What more could any electrical contractor ask?

What other company gives you as much? Tie up now with G. E.



GENERAL ELECTRIC

GENERAL ELECTRIC COMPANY, SCHENECTADY, N. Y., SALES OFFICES IN PRINCIPAL CITIES

FLOODLIGHTS

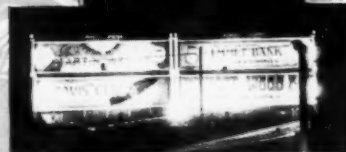
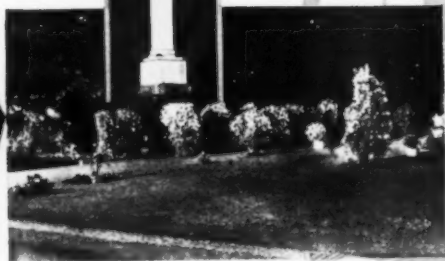
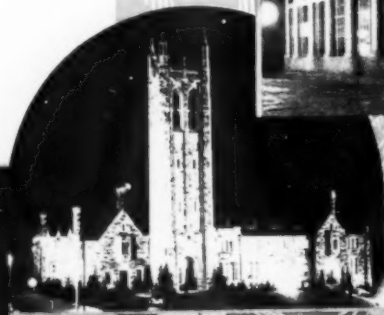
a big market

From office buildings to filling stations—from construction projects to playgrounds—floodlighting has proved its wide adaptability and is entering an almost limitless sales field.

No longer confined to the decorative illumination of buildings, floodlights are being used, more and more, for spectacular publicity and as a measure of safety. The value of these and of many other applications is now well established and has won the hearty indorsement of business men, city officials, architects, and builders. As a floodlighting installation specialist, you will be able to develop a large market for floodlights in the promotion of advertising, industrial, and commercial purposes—such as the lighting of water towers, smokestacks, real-estate projects, and more than 200 other applications. You will thus find many new opportunities to sell wire, cable, and wiring devices.

General Electric provides the materials—the projectors and every piece of equipment. In addition it tenders you the service of its lighting specialists in every part of the country—without charge—whenever you need technical advice. Be the installation specialist for G-E floodlighting in your territory.

Flood-
lighting
for all
out-
doors



GENERAL



MOTORS *and* CONTROLa UNIT

The confidence of industry in G-E Motorized Power is demonstrated by the ever-growing list of small as well as large plants in which G-E motors and control are installed.

Undivided responsibility in the sale and application of both the motor and its control—as a unit—goes a long way to assure performance that builds confidence.

Whatever the task, General Electric can supply the proper motor and control—and the engineering advice to provide the correct application of both to the job. This is G-E Motorized Power.

This is **your service** to your customers when you become the specialist in the application of G-E motors and control in your territory.

ELECTRIC

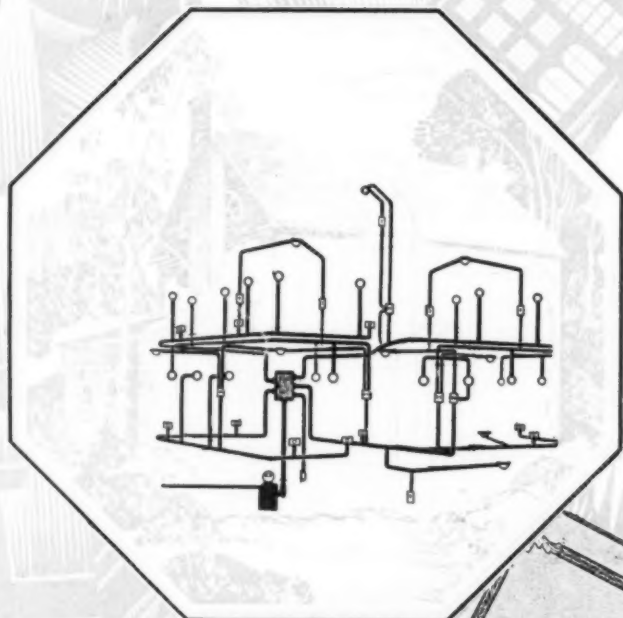




WIRING SYSTEM

Electrical contractors are cashing in big with the GENERAL ELECTRIC WIRING SYSTEM. Here is a nationally advertised method of wiring that makes you a Wiring Specialist . . . backed up by complete advertising tie-in material. High grade standard materials give the job a selling value which puts it out of a purely competitive class of business. G-E supplies complete estimating and contracting forms. Personal letters to builders from G-E give you an entrée enabling you to present your proposition with better chance of landing the job . . . and it gives you a name for your wiring installation that is founded on quality and reliability. Best of all, YOU MAKE MONEY!

Make up your mind today to become the WIRING SPECIALIST IN YOUR CITY. Write at once for your copy of "Selling Housewiring." The coupon below will bring you a free copy.



Merchandise Dept.,
General Electric Co., Bridgeport, Conn.

I am interested in profitable wiring jobs. Please send me a copy of "Selling Housewiring."

Name

Address

GENERAL





"BX"

REG. U.S. PAT. OFF.

TYPE **A.** — **B.** — **C.**
ARMORED BUSHED CABLE

ARMORED BUSHED CABLE

Speeds wiring and affords protection against grounds and shorts. The "Double Armored" construction of the new General Electric "BX" Type A. B. C. Cable consists of a flexible steel outer armor and a Kraft Armor between steel and conductors. The Kraft Armor requires no tools to remove and strips automatically to provide space for the "Anti-Short" Bushing.

The insertion of the "Anti-Short" between the sharp edges of steel and the conductors is a quick hand operation. The "Anti-Short" protects the insulation at the most critical point of installation; speeds wiring and insures contractors against "no pay" repairs.

The new General Electric "BX" Type A. B. C. Cable and "Anti-Short" Bushing protect against grounds, increase safety and facilitate wiring.

"ANTI-SHORT"

A split sleeve of red insulating fibre. Bushes cut end of armor and furnishes additional insulation between armor and conductors.



ELECTRIC

CENTERS OF SERVICE

At the following centers are located G-E Merchandise Distributors—not merely wholesalers, but service organizations made up of men who believe contractors and dealers are the backbone of the electrical supply business.

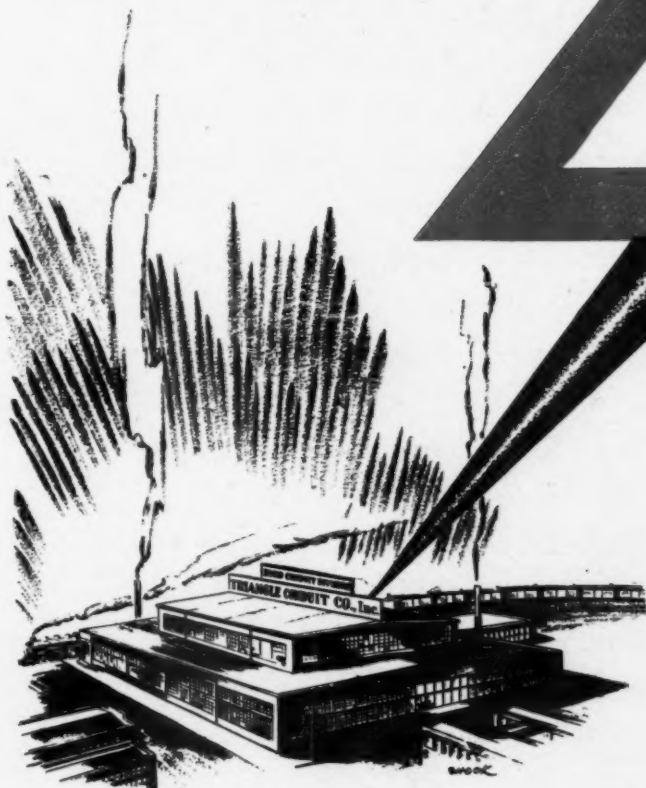
These men have pledged themselves to your service. Their assistance has meant success to many customers. The next time one calls on you, tell him your problems; he may be a big factor in your success.

Alabama, Birmingham.....	Matthews Electric Supply Co.	New Jersey, Jersey City...	General Electric Supply Corp.
Alabama, Mobile.....	Matthews Electric Supply Co.	New Jersey, Newark.....	E. B. Latham & Co.
Arizona, Phoenix.....	General Electric Supply Corp.		General Electric Supply Corp.
Arkansas, Little Rock.....	General Electric Supply Corp.	New Jersey, Paterson.....	General Electric Supply Corp.
California, Long Beach...	General Electric Supply Corp.	New York, Albany.....	Havens Electric Company
California, Los Angeles...	General Electric Supply Corp.	New York, Buffalo.....	The Falls Equipment Co.
California, Oakland.....	General Electric Supply Corp.	New York, Binghamton...	Southern Tier Elec'l Supply Co.
California, San Diego.....	General Electric Supply Corp.	New York, New Rochelle...	Royal Eastern Elec'l Supply Co.
California, San Francisco...	General Electric Supply Corp.	New York City.....	General Electric Supply Corp.
Colorado, Denver.....	Hendrie & Bolthoff Manufacturing & Supply Co.		(Also Borough of Brooklyn and the Bronx)
	General Electric Supply Corp.		E. B. Latham & Company
Connecticut, Bridgeport...	Southern New England Elec. Co.		Royal Eastern Elec'l Supply Co.
Connecticut, Hartford...	Southern New England Elec. Co.		(Also Borough of Brooklyn and Long Island City)
Connecticut, New Haven...	Southern New England Elec. Co.	New York, Niagara Falls...	The Falls Equipment Co.
Connecticut, Waterbury...	Southern New England Elec. Co.	New York, Rochester.....	Wheeler-Green Electric Co.
District of Columbia,		New York, Syracuse.....	Syracuse Supply Company
Washington.....	National Electrical Supply Co.	New York, Utica.....	Langdon & Hughes Electric Co.
Florida, Jacksonville.....	General Electric Supply Corp.	North Carolina, Charlotte...	General Electric Supply Corp.
Florida, Miami.....	General Electric Supply Corp.	North Carolina, Greensboro...	National Electrical Supply Co.
Florida, Tampa.....	General Electric Supply Corp.	North Carolina, Raleigh...	General Electric Supply Corp.
Georgia, Atlanta.....	General Electric Supply Corp.	North Dakota, Fargo.....	General Electric Supply Corp.
Georgia, Savannah.....	General Electric Supply Corp.	Ohio, Akron.....	General Electric Supply Corp.
Illinois, Chicago.....	General Electric Supply Corp.	Ohio, Cincinnati.....	General Electric Supply Corp.
	Commonwealth Edison Co.	Ohio, Cleveland.....	General Electric Supply Corp.
	Metropolitan Electrical Supply Co.	Ohio, Columbus.....	General Electric Supply Corp.
Illinois, Rockford.....	Swords Electric Company	Ohio, Dayton.....	General Electric Supply Corp.
Illinois, Springfield.....	General Electric Supply Corp.		Wm. Hall Electric Company
Indiana, Evansville.....	General Electric Supply Corp.	Ohio, Toledo.....	General Electric Supply Corp.
Indiana, Fort Wayne.....	Protective Electrical Supply Co.	Oklahoma, Oklahoma City...	General Electric Supply Corp.
Indiana, Indianapolis.....	General Electric Supply Corp.	Oklahoma, Tulsa.....	General Electric Supply Corp.
Indiana, South Bend.....	South Bend Electric Company	Oregon, Portland.....	General Electric Supply Corp.
Iowa, Burlington.....	Crescent Electric Supply Co.	Pennsylvania, Erie.....	E. S. & E. Company of Erie
Iowa, Davenport.....	Crescent Electric Supply Co.	Pennsylvania, Philadelphia...	General Electric Supply Corp.
Iowa, Des Moines.....	General Electric Supply Corp.	Pennsylvania, Pittsburgh...	General Electric Supply Corp.
Iowa, Dubuque.....	Crescent Electric Supply Co.	Pennsylvania, Scranton...	E. S. & E. Company of Scranton
Kansas, Wichita.....	Sutton Electric Supply Company	Rhode Island, Providence...	Union Electric Supply Co.
Kentucky, Louisville.....	General Electric Supply Corp.	South Carolina, Columbia...	Perry-Mann Electric Co.
Louisiana, New Orleans...	General Electric Supply Corp.	Tennessee, Chattanooga...	General Electric Supply Corp.
Louisiana, Shreveport...	General Electric Supply Corp.	Tennessee, Knoxville.....	General Electric Supply Corp.
Maine, Portland.....	General Electric Supply Corp.	Tennessee, Memphis.....	General Electric Supply Corp.
Maryland, Baltimore.....	General Electric Supply Corp.	Tennessee, Nashville...	General Electric Supply Corp.
Massachusetts, Boston...	General Electric Supply Corp.	Texas, Abilene.....	General Electric Supply Corp.
Massachusetts,		Texas, Amarillo.....	General Electric Supply Corp.
New Bedford.....	Union Electric Supply Co.	Texas, Dallas.....	General Electric Supply Corp.
Massachusetts, Springfield...	General Electric Supply Corp.	Texas, Houston.....	General Electric Supply Corp.
Michigan, Detroit.....	Frank C. Teal Company	Texas, San Antonio.....	General Electric Supply Corp.
	General Electric Supply Corp.	Utah, Salt Lake City.....	General Electric Supply Corp.
Michigan, Grand Rapids...	C. J. Litscher Electric Company	Virginia, Norfolk.....	General Electric Supply Corp.
Michigan, Jackson.....	C. J. Litscher Electric Company	Virginia, Richmond.....	General Electric Supply Corp.
Michigan, Kalamazoo.....	C. J. Litscher Electric Company	Washington, Seattle.....	General Electric Supply Corp.
Minnesota, Duluth.....	General Electric Supply Corp.	Washington, Spokane...	General Electric Supply Corp.
Minnesota, Minneapolis...	General Electric Supply Corp.	Washington, Tacoma.....	Home Electric Company
Minnesota, St. Paul.....	General Electric Supply Corp.	West Virginia, Charleston...	Virginian Electric, Inc.
Mississippi, Jackson.....	General Electric Supply Corp.	West Virginia, Wheeling...	Gee Electric Company
Missouri, Joplin.....	General Electric Supply Corp.	Wisconsin, Appleton.....	G-Q Electric Company
Missouri, Kansas City...	General Electric Supply Corp.	Wisconsin, LaCrosse.....	General Electric Supply Corp.
Missouri, St. Joseph.....	General Electric Supply Corp.	Wisconsin, Madison.....	Crescent Electric Supply Co.
Missouri, St. Louis.....	General Electric Supply Corp.	Wisconsin, Milwaukee...	G-Q Electric Company
Montana, Butte.....	General Electric Supply Corp.	Wisconsin, Racine.....	G-Q Electric Company
Nebraska, Omaha.....	General Electric Supply Corp.		

GENERAL ELECTRIC



Now--- TRIANGLE RIGID STEEL CONDUIT *from our* NEW PLANT



Highest Standard of Quality-- Meets Exacting Requirements

One continuous operation from raw steel to finished product enables us to maintain rigid inspection during every manufacturing process. Exacting inspections combined with complete laboratory control assure you of a uniform product of the highest quality—enabling you to satisfy the increasing demands of engineers and architects for material of the highest standards.

Our new plant, located at Wheeling, West Virginia, built for the exclusive production of Triangle Rigid Steel Conduit is a great forward step in the industry, placing the production of this product on a basis to meet the increasing demand of both small and large users.

Write today for sample and complete
information

TRIANGLE CONDUIT CO., Inc.

General Offices: Dry Harbor Road and Cooper Avenue, Brooklyn, N. Y.

Factories: Brooklyn — Chicago — Wheeling, W. Va.

In Canada: Canadian Triangle Conduit Co., Ltd., Toronto



Satisfying **the real critics**

THE real critics of your electrical contract work are the owners and occupants of the plants and buildings you wire. Theirs is the O.K. you must seek . . . whose satisfaction you must obtain. These men are the foundation of your reputation . . . and what they think of the equipment you furnish decides largely the future of your business.

They know the position which Cutler-Hammer occupies in the industry . . . its reputation. They know that Cutler-Hammer has been in the forefront of every development during the past 30 years . . . and often its pioneer.

So it is only natural that you both win the critics' approval . . . and make certain of satisfactory profits . . . when you use Cutler-Hammer "T-V" Switches.

Cutler-Hammer Switches are built for durability, for economies in space, installation and maintenance costs . . . to give efficient and trouble-free service for extraordinarily long periods of time. There is a Cutler-Hammer Safety Switch for every requirement. Any reliable jobber can supply you and we will send a complete catalog of C-H "T-V" Switches at your request.

CUTLER-HAMMER, Inc.

Trumbull-Vanderpoel Electric Mfg. Co.

Subsidiary

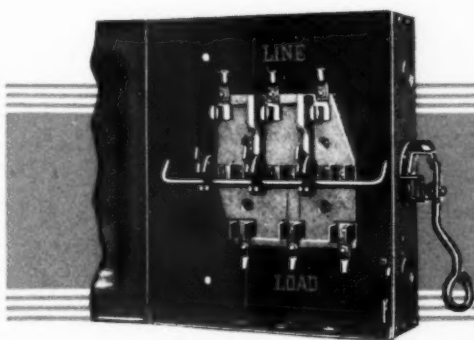
1307 St. Paul Avenue

MILWAUKEE : WISCONSIN





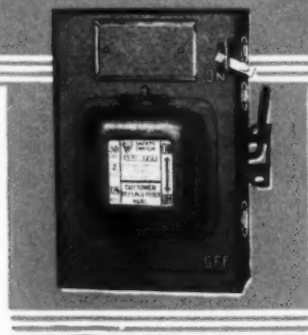
of your contract work



Advantages of C-H Standard Duty Type C Switch

(Bulletin 4131)

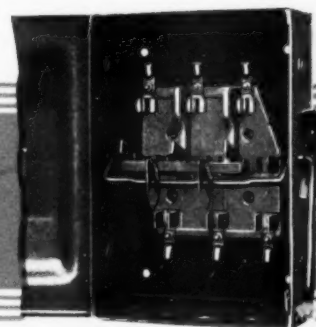
Quick make and quick break prevents burning of contacts, gives far longer life. Molded crack-proof base. Rugged, careful construction. Small case yet easy to wire. Removable handle to prevent tampering. Six sizes, from 30 to 400 amps., 250 and 600 volts.



Advantages of C-H Universal Meter Service Switches

(Bulletin 4311 H1)

First standard device offering economical provision for branch circuits. Compact switchblock combines enclosed sealed main fuse and exposed accessible branch fuses in one unit. One or two blade types for two or three wire installations. Circuit dead fuse type. Connections conveniently located.



Advantages of C-H Light Duty Entrance Switch

(Bulletin 4141)

Standard-Duty Type C design and construction. Smaller in size, ample wiring space. Smaller switch bases. Quick break to reduce arcing and prolong life. Plug fuse or cartridge fuse type. 21 sizes, from 30 to 100 amperes, 125 and 250 volts. Solid neutral, 2 or 3 wire. Low price.

CUTLER HAMMER

High Quality Safety Switches For Every Service

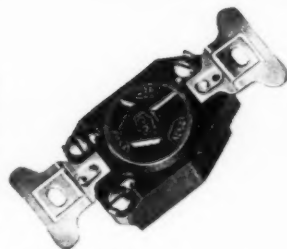
(9628)

What bid



△
C-H Catalog 7921 Outlet Box type Receptacles are ideal for garage and similar installations. The duplex type particularly furnishes double convenience for trouble light, battery charger, etc. Included are the same one-piece, double grip, smooth-plugging contacts and other features found in the famous C-H 7920 standard receptacle. Single type has 3¼ or 4 inch steel box cover plate. Duplex has 4 inch plate. Approved by the Underwriters

△
C-H Catalog 7665 3-wire Flush Receptacles are in keeping with the latest trend in wiring. The base is made of unbreakable, heat-proof Thermoplas—the clips of heavy phosphor bronze assuring positive contact and long life. The staked binding screws never loosen—and are large in size for strength and wiring convenience. C-H 3-wire Flush Receptacles meet Underwriters' requirements.



▽
• SELL • COMPLETE • CONVENIENCE •

are You making for the Future?

Complete Wiring Today Brings New Contracts Tomorrow

WHAT are the secrets for success in the electrical business . . . in any business? What makes the kind of reputation that "stands up" under stiff competition . . . that always gets its share, and more, of the wiring business?

Good management . . . sure! Proper buying . . . of course! First class workmanship—necessarily! But there's one more—an important one—especially for you, the electrical contractor—It might be called Service, but that doesn't cover it—so let's call it "The business of telling your customers, what they *should* have in their wiring work—not what they think is sufficient."

You know, most of your prospects are uninformed—or maybe they just don't care—when it comes to complete electric wiring. Yet they do appreciate and will accept, suggestions from an expert—from you. They gain by receiving a better job—you increase your profit.

Suggest plenty of duplex outlets for future needs



C-H Catalog 7261 Toggle Flush Switches handle all lamps including gas filled bulbs. Built shallow, they are convenient to install in any standard box. Made in single-pole, double-pole, 3-way and 4-way types. Approved by Underwriters.

not only in the living room but the playroom, bedrooms, attic, recreation room, thruout the basement, etc.—Suggest lights for all closets, dark spaces, etc. — Suggest the use of three-way switches wherever they will save steps or add convenience—the use of duplex receptacles in the garage, for battery charger, trouble light, etc. — Suggest the use of door switches in closets—heavy duty receptacles for laundry, etc.

In fact, there's opportunity for you to make suggestions for every room in the house, always bearing in mind those new electrical appliances your customers will buy during the life of the home and will want to connect easily, conveniently.

The C-H Line of Wiring Devices increases lighting convenience in every corner of the house . . . and there is a C-H Device for every need. C-H quality—backed by 30 years' experience—is your guarantee of satisfactory performance. Your jobber has them.

CUTLER-HAMMER, Inc.

Pioneer Manufacturers of Electrical Apparatus

1258 St. Paul Avenue MILWAUKEE, WISCONSIN

CUTLER HAMMER

MODERN WIRING



NECESSITIES

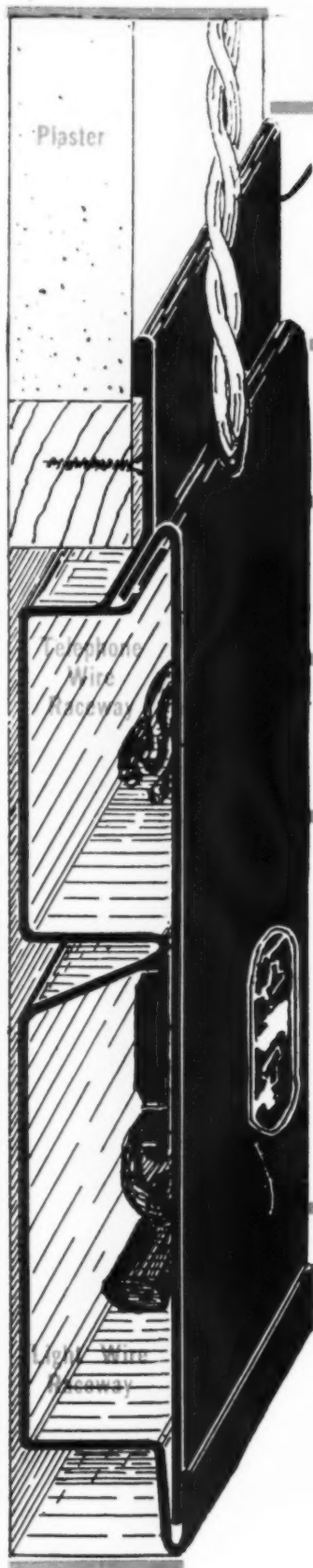
C-H Catalog 7920 Duplex Receptacles are small and shallow—designed for easy handling and quick wiring. Parallel slots are polarized. Contacts are heavy one-piece phosphor bronze doubled to insure firm contact at all times regardless of length of service and to prevent stubbing. Approved by the Underwriters.



C-H Catalog 7281 "Rubber-Mounted" Toggle Switch. The mechanism—"full-floating" on two resilient rubber cushions—is extremely simple. No screws, and but one unit. No metal connections to transmit sound. Short, stubby contact blades are heavy to prevent "bounce" and pitting. Heat-proof, crack-proof Thermoplas protects mechanism from all foreign material. Single pole, double pole, 3-way and 4-way types. Approved by Underwriters.



BUILD • GOOD • WILL •



CONDUO-BASE

A Combination METAL BASE-BOARD and ELECTRIC WIREWAYS FOR HIGH & LOW TENSION BRANCH DISTRIBUTION

IN CONDUO-BASE YOU HAVE THE MEANS OF MATERIALLY INCREASING YOUR SALES AND ELECTRIC CONTRACTS. ITS LOW COST, ITS CONVENIENCES WILL SELL ITSELF TO YOUR CLIENTS. WRITE ANY OF THE MANUFACTURERS LISTED BELOW FOR CATALOGUES, INSTALLATION DATA AND PRICE LIST

Dahlstrom Metallic Door Co.
Jamestown, N. Y.

United Metal Products Co.
Canton, Ohio

Knapp Bros. Mnfg. Co.
Chicago, Ill.

CONDUO-BASE has been installed in hundreds of modern buildings throughout the Country. Why not in the buildings in your territory?



PROFITABLE PRODUCTS

Cash In On The Rage For Color

which is sweeping the country by furnishing your customers with switch and outlet plates to match their walls, decorations, or—in bathrooms and kitchens—the plumbing fixtures, which are now being installed in color. Fourteen different shades, including a satin brass finish. These can be resold to your customers at a low price and make a handsome profit for you. Old plates are tarnished—why not replace with the new modern style in colors.

When you sell a rewiring job—sell color switchplates.

FREE!!

A sample package of four different colors will be mailed you absolutely free—all you have to do is fill in the coupon and mail it this month as this offer is good only during the month of October.

CST Conduit Fittings Pay You

dividends in time and labor saved because only perfect fittings are sold. When you buy CST Fittings you are assured of satisfaction. The locknuts, bushings, etc., have good threads, are perfectly galvanized and easily handled. Practically no rejects. Try them and let us know how you like them.

cSt Products Are Sold Thru Jobbers

CHICAGO STEEL TANK CO.

ELECTRICAL DIVISION

6400 West 66th Street

CHICAGO, ILLINOIS

**T
H
E**



Toggle

**L
U
S
T
E
R**



Single Outlet

**L
A
S
T
S**



Duplex Receptacle

Mail it today!!

Fill in this coupon now!

Please send free samples of the new CST Color plates to:

Name _____

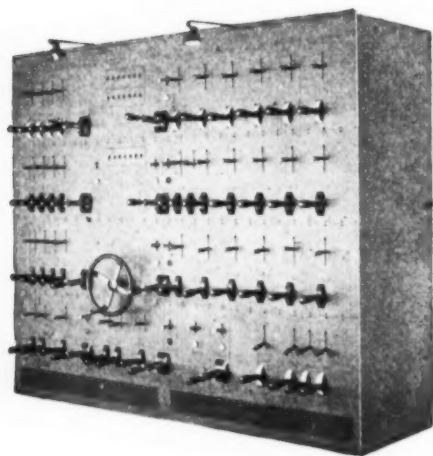
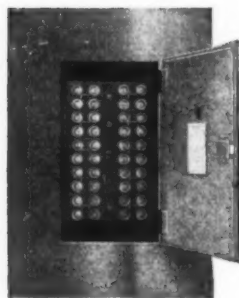
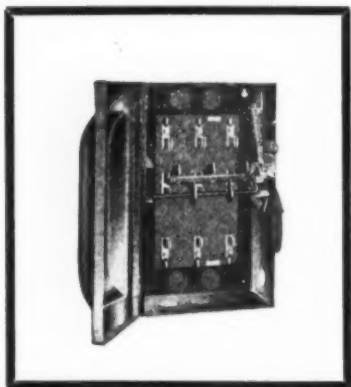
Company _____

Street _____

City _____

Check 4 colors: ☐ Red ☐ Blue ☐ Bronze ☐ White ☐ Green ☐ Yellow ☐ Grey ☐ Black ☐ Silver ☐ Gold ☐ Copper ☐ Nickel ☐ Chrome

Modern LIGHTING



ILLUMINATION of our city streets at night rivals the most elaborate theatrical spectacle of only a few years ago. Yet, in common with stage presentations, the important part is "behind the scenes". Every lighting effect which meets the eye of the passerby, every theatrical production, every airport lighting job, is dependent upon control apparatus. For beauty, as well as for power, electricity can only be utilized when controlled.

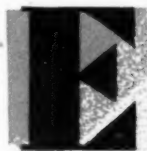
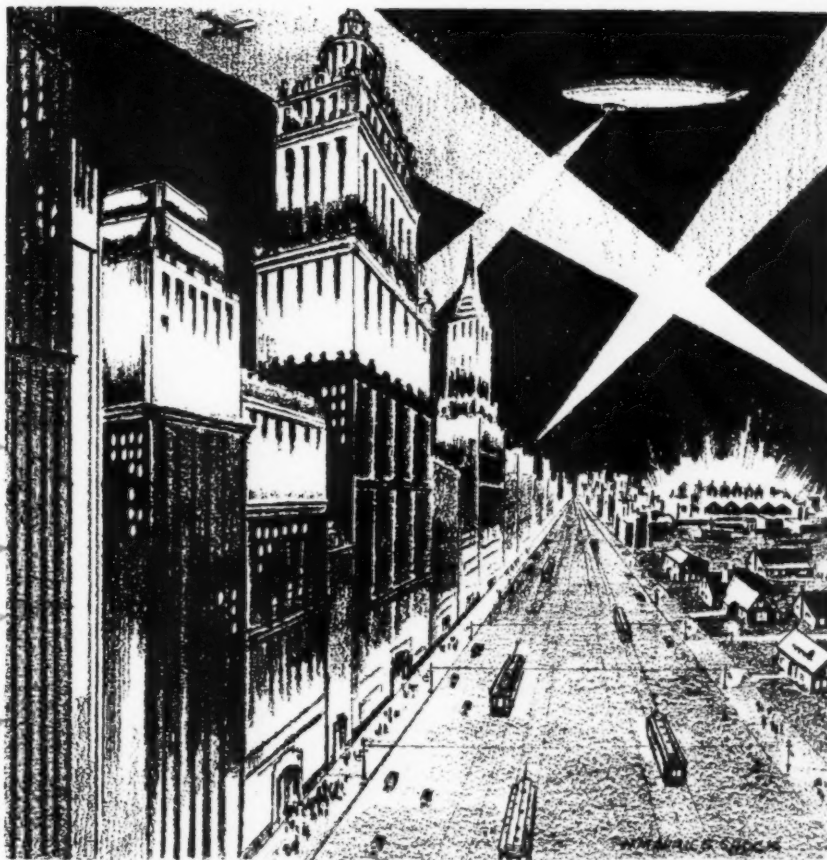
As the majority of wiring jobs which come to the average contractor are lighting jobs, he will be especially interested in the contributions of The Trumbull Electric Manufacturing Company to the modern art of lighting control in the form of Switches, Switchboards, Panelboards and "Controlite" Theatre Control Boards. The Semi-Centennial Celebration of the Incandescent Lamp, awakening the general public to the benefits and enjoyment derived from proper illumination, will produce greatly increased business in electric wiring. It will pay you, Mr. Contractor, to become acquainted with the wide variety of devices supplied for lighting installations by TRUMBULL. And, remember, every "Circle T" Product is made to give you satisfaction, in the installation, and the owner, in its use.

ING Possible Only Through CONTROL

TRUMBULL Products

Include

Safety Switches, All Types
 Motor Starting Switches
 Magnetic Switches
 (Local and Remote Control)
 Meter Service Switches
 Panelboards
 (Unit and Residence)
 Switchboards
 "Controlite" Theatre Control
 Boards
 "Flex-A-Power"
 (The Convenience Outlet for
 Power in Industry)
 Open Knife Switches
 Porcelain Wiring Devices



VERY electrical installation requires Trumbull Control apparatus. Our complete line of Switches and Panelboards for all standard requirements are listed in Catalog 14 which has just been printed and which also describes "Controlite" Theatre Control Boards, Switchboards and "Flex-A-Power." If you have not received your copy, we will be glad to send you one upon request.



Sold Through Jobbers

THE TRUMBULL ELECTRIC MFG. COMPANY

Plainville, Conn.

NEW YORK
114 Liberty St.

BOSTON
1002 Statler Bldg.

BRANCH PANEL BOARD AND SWITCH BOARD FACTORY AT
LUDLOW, KENTUCKY.

PHILADELPHIA.
511-513 N. BROAD ST.

ATLANTA

CHICAGO
2001 W. Pershing Rd.

SAN FRANCISCO
595 Mission St.

PORTRAIT of a CONTRACTOR



**Who Learned
the Difference
Between Bidding
and SELLING**

THE ordinary contractor lets his price talk for him.
The SPECIALIST talks for his price.

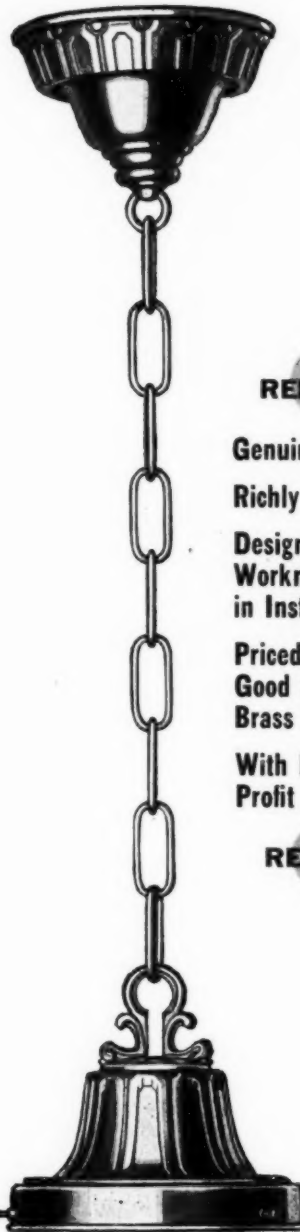
We had a case the other day where a Specialist Contractor SOLD a lighting job for \$450 against a run-o'-mine competitor who BID \$250. He did it by demonstrating quality. He tore the competitor's paper-thin fixture in two with his bare fingers, and then he explained the merits of genuine bronze, of plated finish, of the beauty and richness and everlasting permanence of

Wakefield Bronze Embossed Hangers

A recent very careful investigation revealed that only one contractor in 16 specializes on commercial lighting—one specialist getting the cream of the business and the real profits, while fifteen general wiring contractors divide up the lowest-bid jobs.

In one hour we can prove to the most skeptical contractor that there is plenty of business and plenty of profit for the Lighting Specialist. We can show you how to get it—we HELP you get it—if you specialize in "Red Spot" material. Write for the Wakefield Lighting Specialist Plan.

**THE F. W. WAKEFIELD BRASS COMPANY,
Vermilion, Ohio, U. S. A.**



RED SPOT

**Genuine Bronze
Richly Embossed
Designed to Save
Workmen's Time
in Installing**

**Priced Same as a
Good Grade of
Brass Fixture**

**With PLENTY of
Profit for YOU**

RED SPOT

A. B. C.

Armored Bushed Cable



"Anti-Short" in end of A. B. C. Cable eliminates Hack Saw Hazard — bushes and insulates jagged end of armor, preventing shorts or grounds between conductors and steel.



ABC.
Anti-Short
which is split gleeve of red insulating fibre, bushes cut end of armor and is additional insulation between armor and conductors.



KRAFT ARMOR is additional compact protection between conductors and steel.



KRAFT ARMOR strips with a pull—no possible injury to conductors—reduces labor.



KRAFT ARMOR unwinds below steel, providing space for ANTI-SHORT Bushing.



ANTI-SHORT Bushing lays over conductors from the side—a squeeze inserts it inside steel.



Insulating ANTI-SHORT Bushing increases insulation at most critical point.

Licensee Pat. Oct. 9, 1928,
No. 1,687,013. Other Patents pending.

AMERICAN CIRCULAR LOOM COMPANY

90 West Street, New York





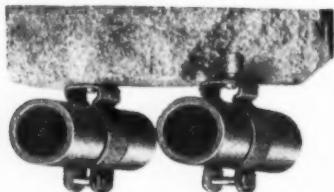
*Products
conquer all
difficulties*

*speeding the work of electrical
contractors*



Hanger with Porcelain Bushing

CABLE HANGERS



Hanger without Porcelain Bushing

Whether open wiring, cable or conduit is being installed, Minerallac specialties save labor and trouble, and make more permanent jobs. Used by the contractor for many years in increasing numbers.

Of spring steel, quickly and easily put in place. Ample strength for the purpose . . . Make more compact and neater installations. With porcelain bushings where voltages require them. Have Underwriters' approval.

Fully described in bulletin which we will gladly send on request.

**Only one bolt or screw in
the handy**

MINERALLAC JIFFY CLIP

You have been looking for this type of clip for a long time.

Light, strong and inexpensive, and requires only one

bolt or screw to make a secure, neat and compact job. Accommodates pipe from $\frac{1}{8}$ to $1\frac{1}{4}$ inches (pipe measurement).



Only One
Bolt or Screw



Minerallac Compound in the Cable Joint



INSULATING COMPOUND

Minerallac Compounds have that consistency which prevents "cracking" in cold weather and too free a flow during the warm days. Thus, extremes in temperature will not affect this material—a worthy test of any insulator.

MINERALLAC

ELECTRIC
25 N. Peoria St.



COMPANY
Chicago, Ill.



COLLYER
Sunset Brand
"SELF-IDENTIFIED"
Colored Wire

Time and Labor Saving. Colored Wire, requires NO TESTING - - NO TAGGING. Made in "a dozen" different colors with extra smooth finish, for easy pulling. Send for samples or ask your jobber.

COLLYER INSULATED WIRE CO.
Pawtucket, R. I.

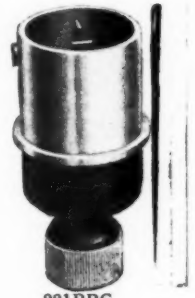
R A L C O

RECEPTACLES AND PLUGS FOR ALL CLASSES OF SERVICE



221A

This Switch Blade Contact Type is designed for heavy, *hard service*. Used on Portable Conveyors, Cranes, Welding Machines, etc. Can be furnished for single phase, two phase and three phase work—30, 60, 100 amp.—250 or 600 volt. Complete descriptions and prices of this type in Bulletin 101—send for it.

221PRG
(Plug)

SAFE



52A

This is the Pin and Sleeve Contact Type designed for use on Portables specified in Rule 908—1929 N. E. Code. Made for use on single and three phase, 30 amp.—250 volts, A. C. Complete descriptions of this type and prices in Bulletin 105, which will be sent on request.

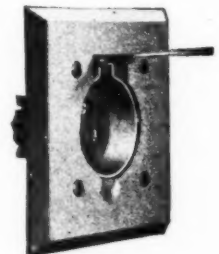
52P
(Plug)

RUGGED



52FR

These Flush Receptacles and Plugs are designed for heavy duty service on electrical appliances, such as Electric Ranges, Water Heaters, Scrubbing Machines, Waffle Irons, Toasters, Permanent Wave Machines and other devices. Full information in Bulletin 106. Yours for the asking.



53FR

RALCO MANUFACTURING CO.

125 N. ALBANY AVE.

CHICAGO, ILL.

and NOW...
*another step
 in lighting
 efficiency*



*Easily
 Installed
 Quickly
 Cleaned*

New Benjamin "Type 79" RLM Dome Reflector

Lamp and Reflector Detachable as a Complete Unit

The Benjamin "Type 79" construction, so successfully introduced in connection with Benjamin "Type 79" Glassteel Diffuser, has now been applied to the Benjamin RLM Dome Reflector.

This construction, which preserves the high lighting efficiency of the Benjamin RLM Dome Reflector, adds new features of easy wiring, easy cleaning and low maintenance cost.

There are only two separable parts; the hood, which contains the wiring terminal base, and the removable reflector, with the lamp-holding element.

The three-point bayonet coupling locks the hood

and reflector units securely together and at the same time completes the electrical connections. Perfect contact is made, through concentric rings, at any point where the reflector is entered in the hood. Polarization is always automatically assured by the circular design of the contacts.

The Benjamin "Type 79" RLM Dome Reflector is National Electrical Code Standard and the porcelain enamel and construction are "Certified by Benjamin" quality.

It truly sets a new standard in lighting equipment for high efficiency, easy wiring, easy cleaning and low maintenance cost.



*Write for special bulletin giving full information
 on the many advantages of this new unit.*

BENJAMIN ELECTRIC MFG. CO.

General Offices and Factory
DES PLAINES (Chicago Suburb), ILL.

Divisional Offices and Warehouses

247 W. 17th Street
 New York

111 No. Canal Street
 Chicago

448 Bryant Street
 San Francisco

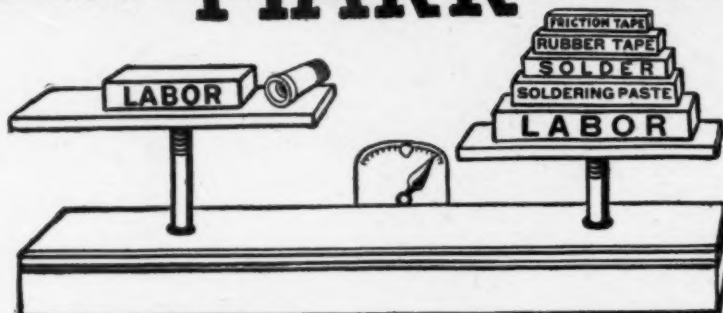


1879 LIGHT'S GOLDEN JUBILEE



1929

The New **MARR** Connector



WEIGH THE FACTS

The MARR connector requires approximately THIRTY SECONDS to install.

The old fashioned splice ONE HUNDRED and TWENTY SECONDS.

A minimum of material to carry for the maximum result.

No extra trips up and down the ladder with the MARR.

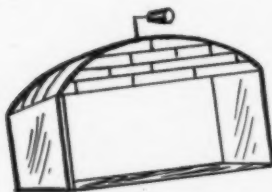
You cannot MARR with the MARR.

Use the Coupon for Sample and Catalogue

THE RATTAN MANUFACTURING CO.

New Haven, Conn.

ELECTRIC TOYS THAT FLY



A. E. RITTENHOUSE CO.

The Rittenhouse Toy Zeppelin and Aeroplane are miniature replicas of the famous Graf Zeppelin and the Spirit of St. Louis. They may be operated either from a counter balance hanging from the ceiling of a room or from a hangar placed on the floor. Where the counter balance is used they are suspended on two fine wires and circle about overhead.

Where the hangar is used they are attached to a flexible steel spring rod which allows of a take-off from the floor rotating above the hangar when the current is turned on and making a graceful landing as the current is shut off.

These toys each contain a small electric motor and operate from either the house current through a toy transformer or from dry cell batteries.

List Price

Zeppelin	\$6.00 each
Aeroplane	5.00 each
Hangar	6.00 each
Counter Balance.....	1.00 each

WRITE FOR DISCOUNT

Honeoye Falls, N. Y.

General Sales Agents

HATHEWAY & COMPANY INC

225 Varick Street, New York City

A general sales organization—Representing nationally:

☐ The Rattan Manufacturing Co.

☐ A. E. Rittenhouse Co.

☐ Clifton Conduit Co.

☐ Clifduct

Gentlemen:

Please send

complete infor-

mation on com-

panies checked. City.....

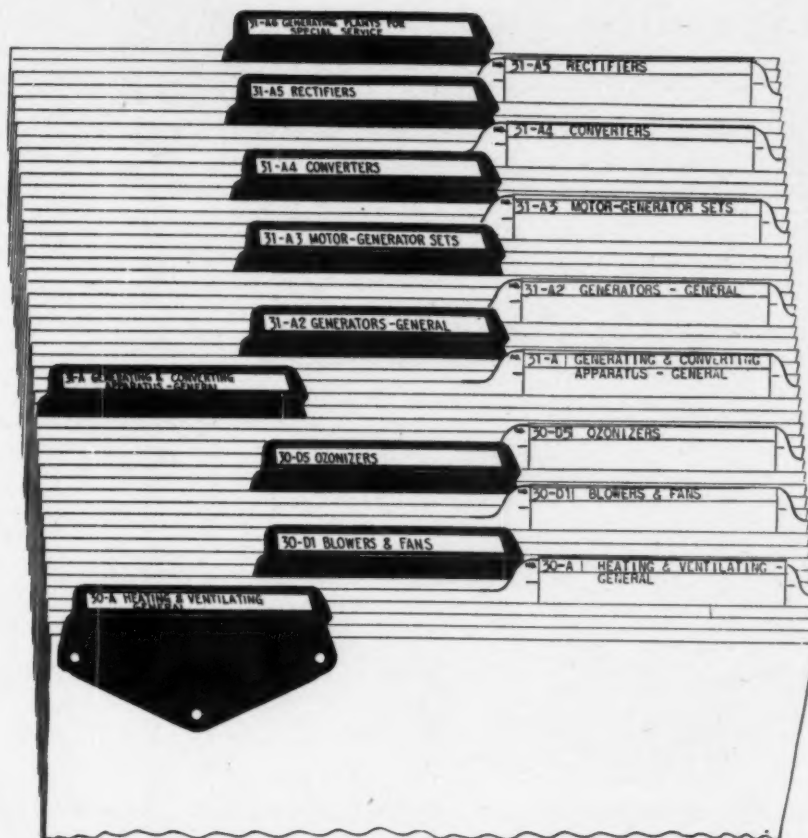
Name.....

Street.....

State.....

"Y and E" Electragists' System—No. 156E

A Filing System for Information on Electrical Supplies and Equipment



THE "Y and E" Electragists' System, No. 156 E, is a special arrangement of 84 letter-size pressboard guides with angular metal tabs and printed subject labels, and Direct Name folders with labels pasted on the tabs, as illustrated above.

The system is based on division No. 31 of the American Institute of Architects' Subject Classification which covers all subjects of interest to electricians. In addition to the electrical section of the A. I. A. Classification it contains a few guides and folders from division No. 30 on heating and ventilating, thus making a complete and practical data filing system for any electrician or electrical contractor.

With each outfit we include an alphabetical cross index, printed in pamphlet form on heavy buff paper. We also furnish 100 blank folders and a package of blank labels for use in expanding the system when necessary.

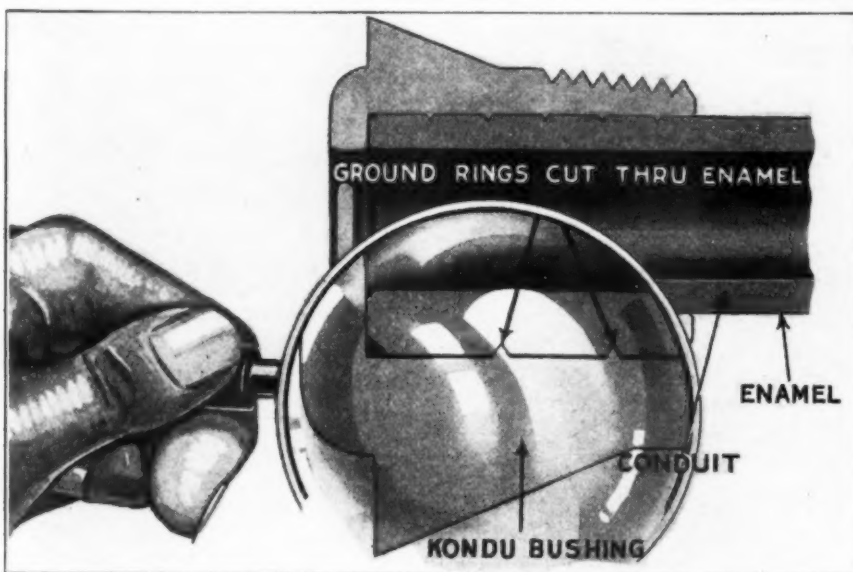
The complete outfit ready to install in any letter-size vertical file.....\$25.00

Complete information will be sent on request.

YAWMAN AND ERBE MFG. CO.

ROCHESTER, NEW YORK

Another time-saving made by KONDU Threadless Fittings— No scraping of enamel from the conduit



KONDU can be taken out of line just as easily as it is put in, without disturbing any conduit. (The only fitting that will do this).

As the Chief Electrical Inspector of one large fire insurance company says: "With KONDU fittings it is not necessary to remove the enamel from conduit to get proper conductivity, as *KONDU fitting cuts through the enamel, making the necessary contact*".

KONDU makes a perfect continuous ground—

The grounding rings bite right through the enamel on the conduit, and imbed themselves in the metal.

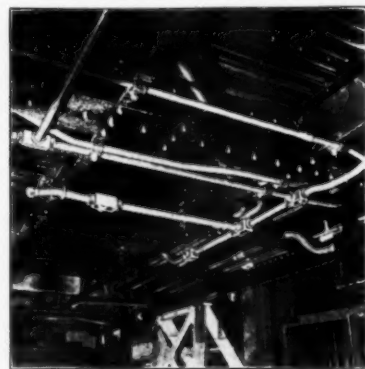
And there are many other time saving "short-cuts" which electrical men like about KONDU. Goes into a conduit line much faster—three or four turns on the lock-nuts and it's in *to stay*.

Let us send you some reports showing how users of KONDU are making big savings by cutting their installation time. Write us.

ERIE MALLEABLE IRON COMPANY
Kondu Division 510 West 12th Street, Erie, Pa.

KONDU

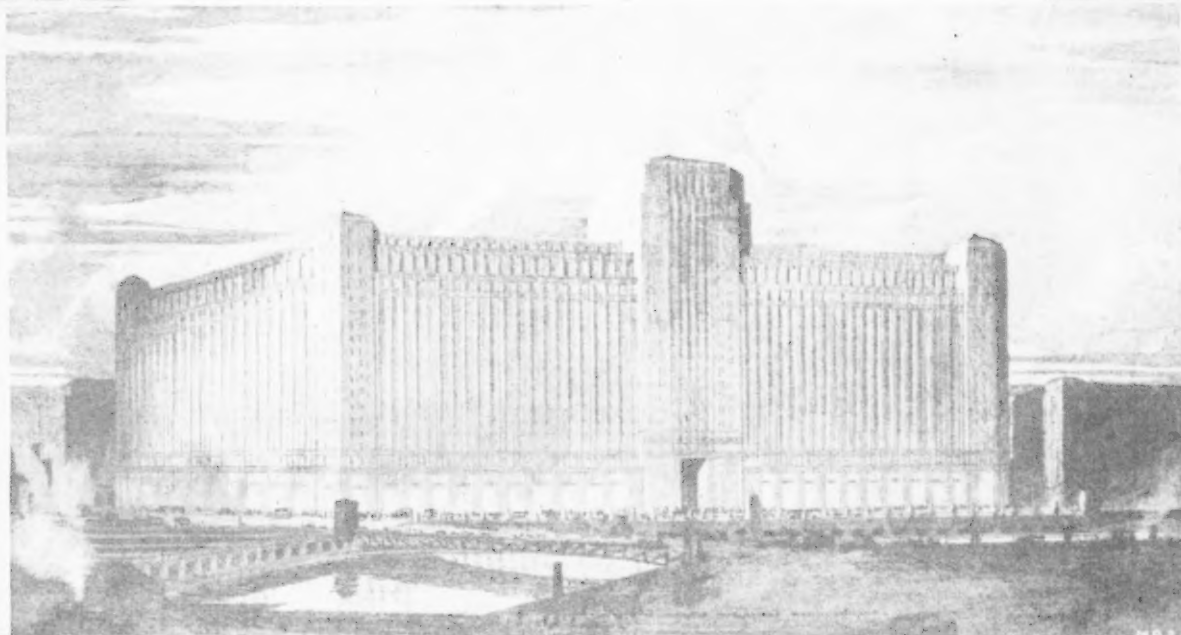
"First in the field of threadless fittings—comes out of the line anywhere, at any time"



"USE A
KONDU
INSTEAD
OF A
THREAD"

YOUNGSTOWN-BUCKEYE

Conduit is as easy to install
as it is lasting in service



The Merchandise Mart, Chicago, Ill., another fine building
using Youngstown-Buckeye Conduit.

Architect—GRAHAM, ANDERSON, PROBST & WHITE
Electrical Contractor—THE A. S. SCHULMAN ELECTRIC CO.

CONTRACTORS who have once used Youngstown-Buckeye Conduit appreciate how easy it is to install—and continue using it in *all* of their work. If you have not used Youngstown-Buckeye Conduit, try it on your next job. See for yourself how readily it can be bent to take the most difficult twists and turns; how it takes the sharpest bends without splitting; how the electro-galvanized or enamel coating stands rough treatment without chipping or cracking; how easily and quickly it threads.

With Youngstown-Buckeye Conduit you not only have all of these features which make for ease and speed of installation, but in addition you have the knowledge that this conduit affords lifetime protection to the electrical wiring—a fact that has been conclusively proved by the performance of Youngstown-Buckeye Conduit in thousands of installations.

THE YOUNGSTOWN SHEET AND TUBE COMPANY

One of the oldest manufacturers of copper-bearing steel, under the well-known and established trade name "Copperoid".

General Offices—YOUNGSTOWN, OHIO

DISTRICT SALES OFFICES

ATLANTA—Healey Bldg.	DETROIT—Fisher Bldg.	PHILADELPHIA—
BOSTON—80 Federal St.	KANSAS CITY, MO.—	Franklin Trust Bldg.
BUFFALO—Liberty Bank Bldg.	Commerce Bldg.	SAN FRANCISCO—
CHICAGO—Conway Bldg.	MEMPHIS—P. O. Box 462	55 New Montgomery St.
CINCINNATI—Union Trust Bldg.	MINNEAPOLIS—Andrus Bldg.	SEATTLE—Central Bldg.
CLEVELAND—Union Trust Bldg.	NEW ORLEANS—Hibernia Bldg.	ST. LOUIS—Shell Bldg.,
DALLAS—Magnolia Bldg.	NEW YORK—30 Church St.	13th and Locust Sts.
DENVER—Continental Oil Bldg.	PITTSBURGH—Oliver Bldg.	YOUNGSTOWN—Stambaugh Bldg.

LONDON REPRESENTATIVE—The Youngstown Steel Products Co.,
Dashwood House, Old Broad St., London, E. C. England

YOUNGSTOWN

"GALVANIZED SHEETS PROTECT"

"SAVE WITH STEEL"

COLUMBIA CABLE

A.B.C. = Armored Bushed Cable
"Double Armored" Cable
"Anti-Short"



COLUMBIA A. B. C. - - (Armored Bushed Cable)
the new safe, low cost flexible steel armored wiring material.

SAFE - - because its interlocking construction of steel armor gives greater grounding continuity.

SAFE - - because its "Anti-Short" bushing protects the wires from the sharp edges of the steel armor.

Specify COLUMBIA Cable.

Columbia Cable & Electric Co.

LONG ISLAND CITY, N. Y.



"Licensee"—Patented Oct. 9, 1928—No. 1,687,013. Other patents pending.

THE ONLY COMPLETE LINE OF ELECTRIC SIGNALING EQUIPMENT

EDWARDS COMPLETE LINE OF
COORDINATED SIGNALING DEVICES
FOR ~

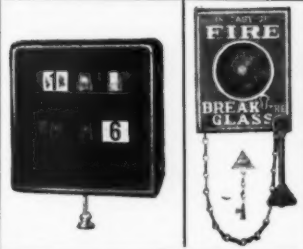
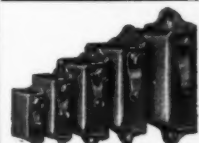
IT'S a far cry from a $\frac{5}{8}$ " push button to a 600 bed hospital. Edwards and Company bridges the gap to perfection with a complete line of electric signaling devices.

Fifty-eight years in business has resulted in completeness, reliability and an enviable reputation.

Any contractor doing low tension signaling work is backed by an unlimited guarantee. Even his smallest job becomes a guaranteed system if he uses Edwards equipment exclusively.

Catalogs and bulletins covering the general line of bells, buzzers, pushes, annunciators, etc.; telephones, tank alarms and hospital signaling devices are available for your immediate use.

The coupon below will bring the requested catalogs; in addition, real sales helps and complete detailed information covering the latest developments in the electric signaling field—monthly.



Schools
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Please send me your catalog covering the only complete line of—

- ☐ Electric Signaling Devices.
☐ Telephone Systems.
☐ "Modern Hospital Signaling."

Name

Address

City..... State.....

THE FISHER BUILDING

*..... one of Detroit's
newest and finest build-
ings, is equipped with*

CENTRAL CONDUIT

THE stately beauty of this architectural gem ranks among Detroit's finest buildings. Inside and outside every detail of its construction reflects the critical judgment of men who KNOW building material values—men who build for permanence as well as beauty.

That "Central" Conduit was chosen to steel armor and protect the vital electric system of this building is a signal tribute to its time-tried dependability—and a compliment to the judgment of the men who specified it.

CENTRAL TUBE COMPANY PITTSBURGH

ALBERT KAHN, Incorporated
Architects and Engineers
DETROIT, MICH.

GRAVEN AND MAYGER
Theatre Architects
CHICAGO, ILL.

J. LIVINGSTON COMPANY
Electrical Contractors
DETROIT, MICH.



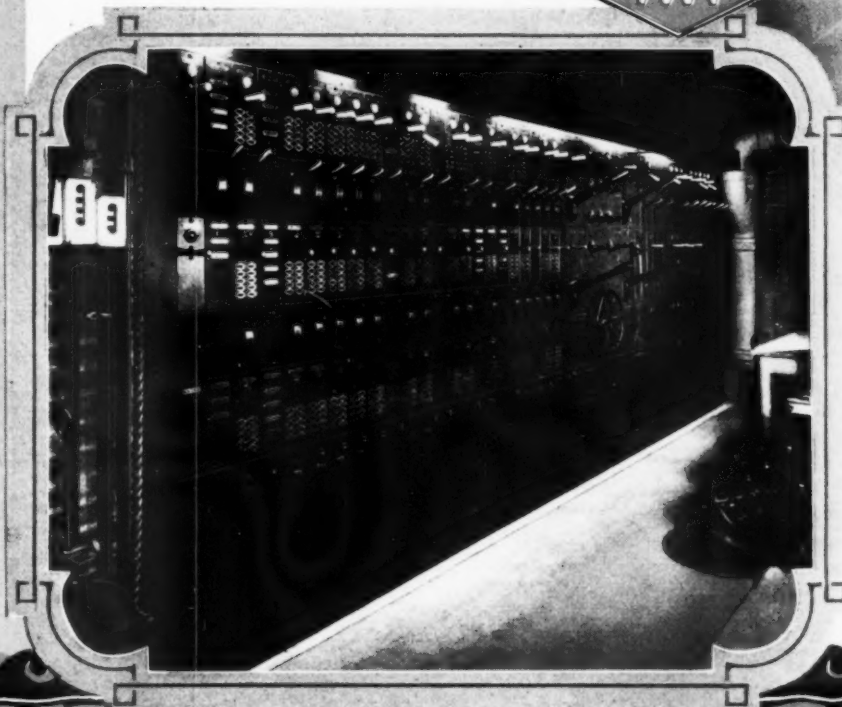
THE LARGE capacity motion picture theatre continues to penetrate the neighborhood and suburban districts of large cities to such an extent that the term "neighborhood theatre", as formerly applied, loses its meaning. Among the latest manifestations of this trend is the new Loew's Kings Theatre in Brooklyn, N. Y., which was opened Sept. 7th. In size, construction, luxurious appointments and technical equipment, this theatre takes rank among the foremost de luxe houses. It is therefore of more than passing significance that its stage switchboard was furnished by

WURDACK



Architects
C. W. Rapp & Geo. L. Rapp

Elect. Contractor
Hoffman & Elias



This view pictures the ten scene Multi-Pre-Set Wurdack Stage Switchboard, with Duplex Control, installed in the Loew's Kings. In spite of its huge capacity, this switchboard is so compactly arranged that one man operates it with ease. Particulars of this and other Wurdack installations gladly furnished upon request.

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WM WURDACK
ELECTRIC MFG. CO.
444 CLAYTON AVE. • ST. LOUIS, MO.

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MINNEAPOLIS
NEW ORLEANS
SAN ANTONIO



Let us talk it over at SWAMPSCOTT

Every Electragist will have a direct interest in the new business-building proposition which we will discuss at the Swampscott Convention of the A. E. I.

This proposition will state clearly and concisely the opportunities open to every electrical contractor to install sound systems in theatres, hotels, parks, churches, clubs, arenas, hospitals and wherever else the growing popular demand for multiple outlet reproduction systems can be used.

The A B C's of sound amplification will be presented in every-day language so that the Electragist can determine for himself just how capable he may be to enter this rapidly growing and immensely profitable field.

The discussions will be given by an officer of one of the oldest and most experienced organizations in the audio engineering field. It will cover enough ground to enable every listener to understand the fundamentals of sound system installation work.

You are cordially invited to come to Mr. Arnson's rooms. It will pay you. If you cannot do so, send for a free copy of explanatory booklet "Amplified Opportunities." Note: This is **not** a stock-selling scheme!

RADIO RECEPTOR CO., INC.

106 Seventh Ave.

New York City

Licensed by Radio Corporation of America and Associated Companies

POWERIZER
SOUND SYSTEMS **AMPLIFIED OPPORTUNITIES**

Clear up Radio Interference

with



Filterettes

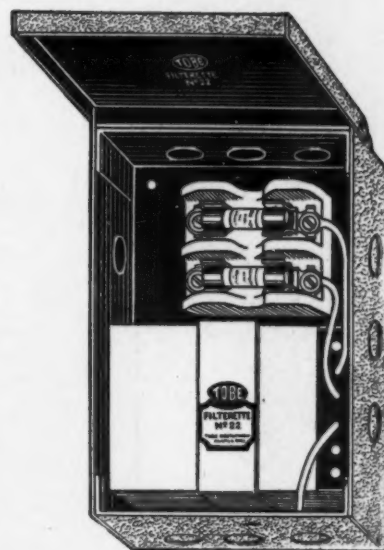
We help you sell and show
you how to install

Devoted exclusively to the examination of electrical appliances and apparatus the Tobe Deutschmann Corporation maintains a special laboratory where research work is carried on to meet your problems.

Here are worked out the latest improved methods of overcoming all forms of static. Manufacturers and power companies send in a diversity of products which include—dental engines, sign flashers, adding machines, fans, diathermy machines, traffic blinkers, etc.

Be the specialist in your town . .

The electrical contractor is the logical man to install many models of Filterettes. The small models for sweepers, etc., do not require any special knowledge, but there are more complicated installations which require 110 volt wiring and a knowledge of the right connections. Tobe Deutschmann Bulletins contain this helpful information. Write us today and we will put you on our mailing list to receive this instruction so you may be the money-making interference specialist in your town.



Manufacturers of Paper Condensers for Every Requirement

Mail coupon today!

TOBE DEUTSCHMANN CORPORATION,
CANTON, MASS.

Gentlemen: I want to be the interference specialist in my town, because I realize the great profit possibilities of specializing in this field. Please send me without obligation on my part, your monthly BULLETINS.

Name Address

City State



ABolite

"GLASS STEEL" REFLECTORS

Installed in the engineering machine shop of the plant of the Gabriel Snubber Mfg. Co., Cleveland, Ohio, result in an average illumination of 18 foot candles. These are standard 20" ABolite Glass-Steel diffusers with white glass globes using 300 Watt clear lamps. The units are spaced 10'x12' centers, mounted 12' above the floor.

The new type ABolite Glass-Steel Reflectors have two valuable improvements—the metal strips alternating with the openings on the top are strongly ribbed, giving added strength to resist bumps from ladders, belts, etc. Also a new safety shade ring which replaces the holding screws.

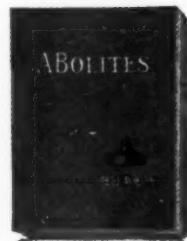
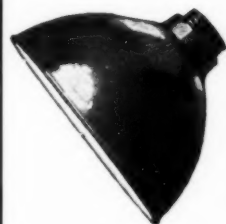
For office and any industrial lighting problems where some ceiling-reflected illumination is necessary, this Glass-Steel unit has become a favorite because its porcelain enameled steel reflector directs the light over a given area and the glass bowl diffuses the light into a soft, clear glow.

All ABolite Reflectors have the heavy round beaded edge.

The ABolite Reflector Co.

2114 Terminal Tower
Cleveland, Ohio

A few of the
ABolite complete
line of porcelain
enameled steel
Reflectors



Send for the
ABolite Reflector
Catalog No. 180



FOR 15 YEARS THE
BASIC POLICY OF THE

WIREMOLD

**COMPANY HAS BEEN TO
HELP THE CONTRACTOR
MAKE THE MOST OF
HIS SELLING CHANCES
BY GIVING HIM PRAC-
TICAL SELLING AIDS**

**THE WIREMOLD COMPANY,
Hartford, Connecticut**

You don't know
what you are
missing if you
fail to read the
"WIREMOLD
BUSINESS
BUILDER!"
It's free — let's
put your name
on mailing
list.



Only 12½ cents per month!

*H*ERE is an easy way to insure receiving every copy of Electrical Contracting containing this invaluable section of Suggested Resale Prices and it costs only 12½ cents per month!

Sign the order at the bottom of this page. If you prefer we will bill you later. But don't delay if you want to receive the benefits of the new November prices.

Remember, these prices are completely checked and revised each month. October prices will be obsolete next month. Sign the coupon and be sure to receive the new prices.

Electrical Contracting

520 No. Michigan Ave., Chicago, Ill.

Please enter my order for two years' subscription to Electrical Contracting at \$3.00, beginning with November, 1929.

☐ Enclosed is \$3.00.

☐ I will remit \$3.00 on receipt of bill.

Signed

Address City

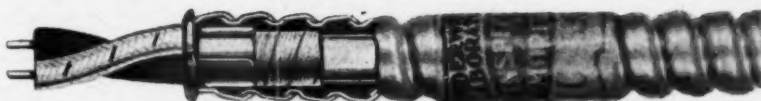
ettco

Ultra-Quality Products



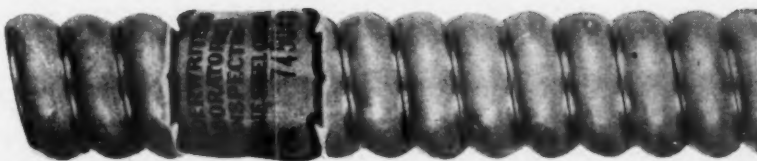
ETTCO Armored Bushed Cable

Eliminates the "guess-work" in wiring—double armored then *bushed*. Shorts simply cannot develop. The *standard armored cable* of practical contractors. It is of extreme flexibility, too.



ETTCO Lead-covered A. B. C. Cable

The same cable as above with an *additional armor of lead* over the conductors. The best cable for outdoor or underground wiring, and it possesses the same flexibility.



ETTCO Flexible Steel Conduit

Made of the toughest steel and as thoroughly as ETTCO skill and experience can make it and no conduit of its kind is more flexible. Comes in all standard sizes.



ETTCO Non-metallic Sheathed Cable

Double-sheathed non-metallic cable thoroughly impregnated with flame and moisture-proof compound. Extremely flexible and the ends easily stripped to speed up handling on the job.



ETTCO Non-metallic Flexible Conduit

Made under the strict code of ETTCO quality. Thoroughly impregnated to make it oil, vapor and water-proof. Flexible to the highest degree.

Eastern Tube and
Tool Company, Inc.
Brooklyn, N. Y.

Put ETTCO down
on the order—it's
your assurance of
the greatest econ-
omy in material
and time.



EVERY WIREMAN SHOULD USE IT

More armored cable used today than ever before, and more will be used tomorrow than today! Are you still cutting armor in the same old-fashioned way? The hacksaw way? The old, awkward, slow, dangerous and wasteful way? **TELKOR** Armor Cutter makes all this unnecessary. It cuts armor quickly, to begin with. It cuts it easily, for another thing. It cuts it in *any location*. And it cuts *only the armor*!

TELKOR grips the cable firmly and makes a clean cut in *one operation*.

TELKOR is easily adjusted to any common size of flexible armored cable.

TELKOR eliminates the hard work of armored cable wiring. **TELKOR** is 100% **SAFE!**

The cutting blades are easily replaced.

TELKOR ARMOR CUTTER will increase the efficiency of the installation and safeguard the wireman.

It's another TELKOR Quality Product

Distributed by Jobbers Everywhere

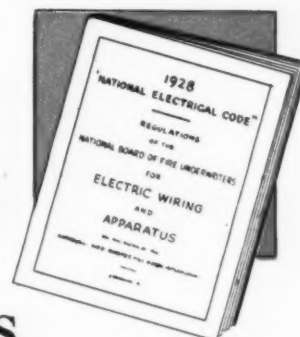
TELKOR
Armor Cutter
FOR FLEXIBLE METALLIC ARMORED CABLE

MADE IN U.S.A.

TELKOR, INC.
ELYRIA, OHIO

Free!

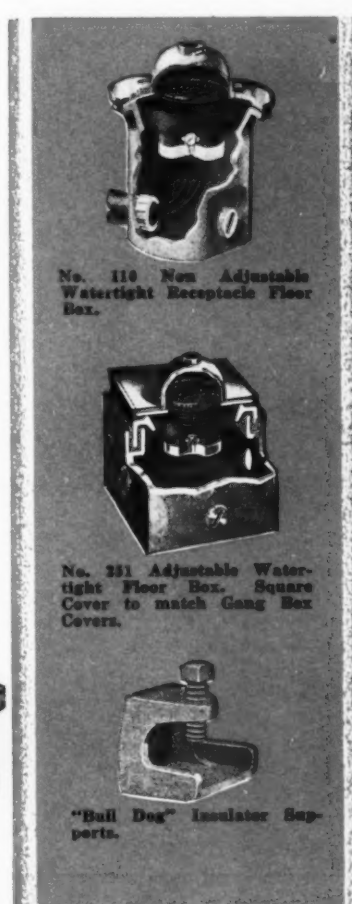
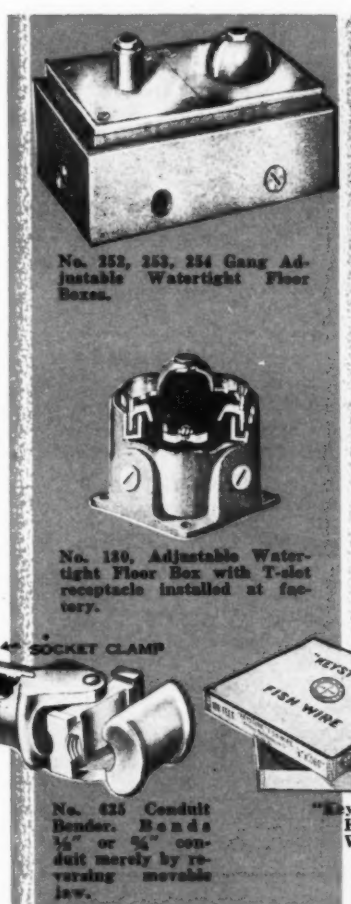
WRITE TODAY
for YOUR COPY of
the **NATIONAL ELECTRIC CODE**



With our compliments—the new 1929 National Electric Code.

**FLOOR OUTLETS-JUNCTION BOXES
CONDUIT BENDERS-FISH WIRE
INSULATOR SUPPORTS, Etc.**

Start now using more Fullman Manufacturing Co. products. The line is complete to meet your every requirement. They speed the work and guarantee the job—more profitable all around.



Fullman Manufacturing Co.

1209-1215 Jefferson St., Latrobe, Pa.

Mail Coupon TODAY for Your 1929 copy of "National Electric Code"

Firm Name
Address City State
Jobber's Name
We are in the market for.....

FREE

FREE

ARROW

ARMORED

BUSHED

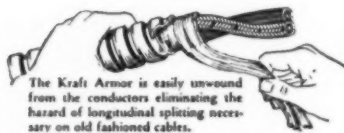
CABLE

Permanence... Safety... Flexibility

And we have it all in the new Arrow A.B.C. double armored cable with ANTI-SHORT bushing. Just unwind the Kraft armor and snap it off. It breaks inside the sheath. The ANTI-SHORT bushing can be slipped between the conductors and the steel armor. For speed and safety on wiring jobs, use ARROW A.B.C. Cable.

See our complete line of armored cable and conduit fittings at Booth 314—National Electrical Exposition, Grand Central Palace, New York. October 7 to 12.

Order today from your jobber, or write us direct giving us his name. Licensee Pat. Oct. 9, 1928. No. 1,687,013. Other patents pending.



The Kraft Armor is easily unwound from the conductors eliminating the hazard of longitudinal splitting necessary on old fashioned cables.



Further knife hazard is eliminated by the fact that the strands of Kraft Armor snap off by merely pulling them.



... And the fact that Kraft Armor breaks off some distance underneath the steel sheath provides space for the Anti-Short split bushing.



The Anti-Short Bushing in place—protecting the conductors from the cut end of the Steel Armor.



ARROW
FLEXIBLE
CONDUIT CO.
INCORPORATED

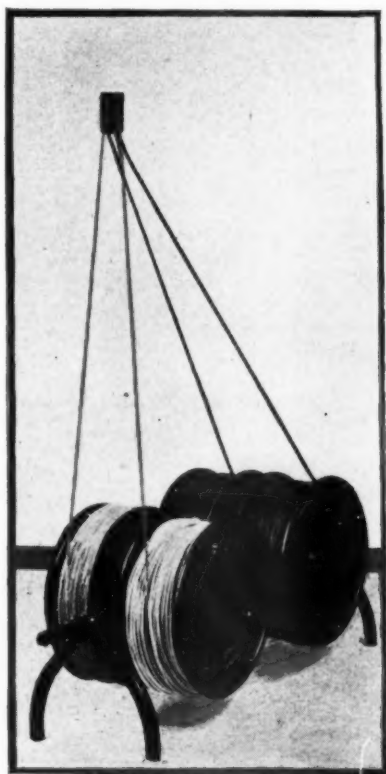
119-121 Bleecker Street
N. Y. C., N. Y.

Avoid This

Save Time and Wire on Every Job

with **Hykon**

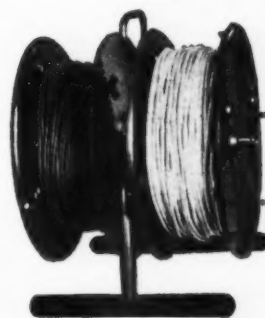
Unit Wiring Reels



Four Gang Unit
Notice how straight the four wires are. They never get slack, or over run the reel. As there is no twist there is no cause for tangling.

No Snarling—No Tangling

Wire flows off HYKON Wiring Reels straight and smooth. No twisting, tangling or snarling. . . Eliminates waste of time, waste of wire, and profanity. Automatic tension prevents over-running. Reel stops instantly when you stop pulling. Loads easily, carries easily. Great favorite with wiremen. Various sizes and in single, double, four gang and six gang units.



Two Gang Reel

Send Coupon Today for "Reel" Booklet ↓

HYKON
MFG. CO.
Alliance, Ohio

Hykon Mfg. Co.,
Alliance, Ohio
I'm interested in saving time and
wire in pulling in. Please send me
your booklet on HYKON WIRING
REELS.

Name

Address

City State

New RACO PRI-OUTS

One Pri-
Screw
Does

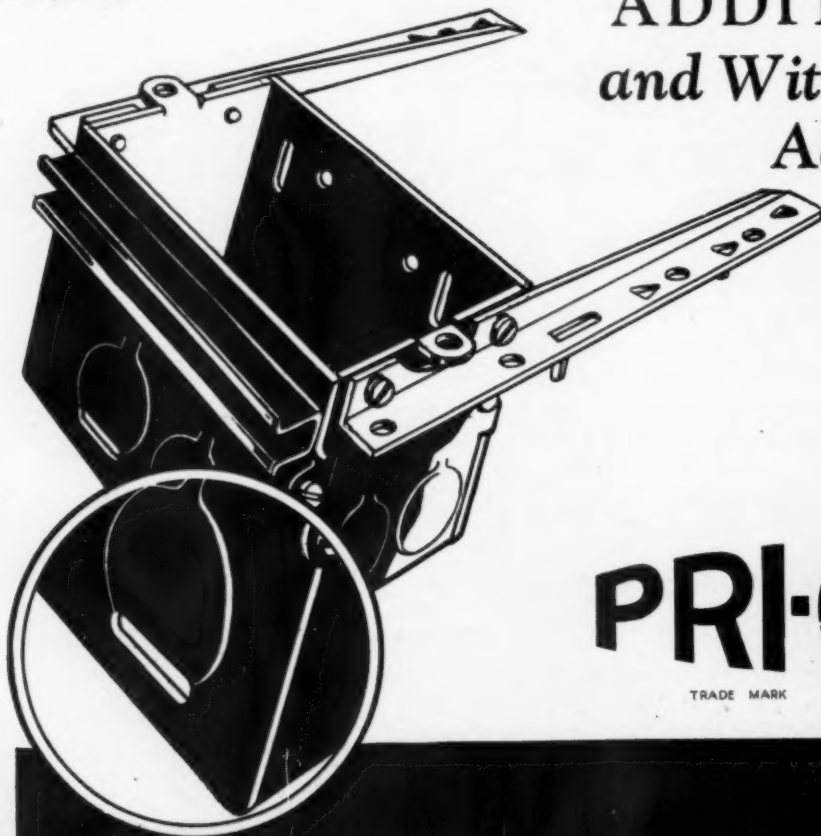


THERE'S another big triumph for RACO products . . . RACO PRI-OUTS are "knockouts!"—and our entire line of switchboxes now will be manufactured with this exclusively patented feature.

(All infringements will be vigorously prosecuted. U.S. Pat. 1709187. Canadian No. 289335 and other patents pending.)

*Speed Installation---Provide
Safety for Wiremen*

WITHOUT
ADDITIONAL COST
and With the Following
Advantages



- 1 Wiremen do not injure fingers with Pri-Out Boxes. Discs do not have to be knocked inwardly and broken off with fingers as in old type boxes.
- 2 The slot in Pri-Out Boxes permit a screw driver to be inserted and the disc pried out.
- 3 Pri-Outs are set flush with the box permitting $\frac{1}{8}$ " more room on inside of the box for wiring.
- 4 All these features over our regular old style line of knockout boxes at no additional cost.

PRI-RACO-OUTS
TRADE MARK



LANG'S DAYLIGHT REFLECTORS

Answer Window Lighting Needs

A WHITER LIGHT

Lang's Daylight Reflectors are made from a special glass slightly blued in its molten state to a scientifically determined degree. This slightly blued glass filters the yellow rays from the light of the Mazda lamp and produces the soft white light that shows merchandise in its truer colors. Numerous coatings of heavy pure silver, permanently protected by coatings of copper, forms the reflecting surface.

NEATER INSTALLATIONS

The telescopic design of Lang's Daylight Reflectors makes it possible for a smaller reflector to have equal distribution to that of larger ones. This smaller size makes for neater installations. Concealed installations are easily made with special rings illustrated below. Recommended spacing for these reflectors is 12 inches on center. Higher Intensity Super lighting may be obtained by spacing the reflectors on as close as 7 inch centers.

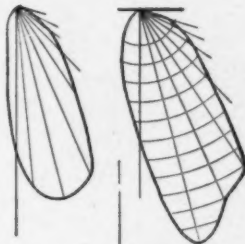


Belda No. 220

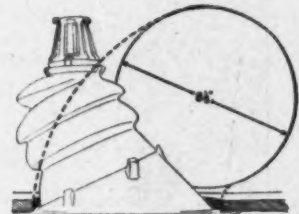
150-200 watt lamp

Designed for windows of average depth. May be spaced as close as 7 inches.

Total height including holder 8½ inches, extreme width 6¼ inches. Front to back 6½ inches. Back to center 2½ inches.



Belda concealed with cast Ring No. 33 on flat ceiling

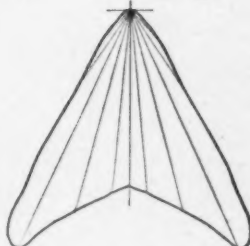


Verda No. 611

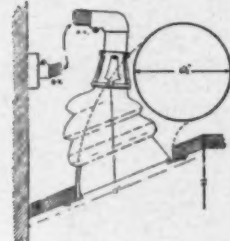
100-150 watt lamp

For use where general distribution of light is necessary such as over merchandise counters.

Total height 5¼ inches. Diameter 5 inches. With 100 w. lamp use form O holder, with 150 w. lamp use form H holder.



Belda concealed with metal Ring No. 66 ceiling is slanted



Adenda No. 625

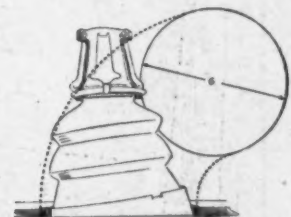
100-150 watt lamp

For use in narrow windows, island windows, windows with glass backgrounds and those without backgrounds. Light source is entirely concealed.

Total height including holder 7 inches—extreme width 5¼ inches. Front to back 5 inches. Back to center 2½ inches.



Adenda concealed with metal Ring No. 99 on flat ceiling



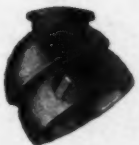
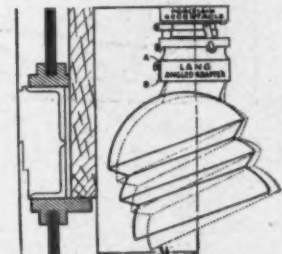
Alda No. 620

100-150 watt lamp

Designed for deep windows and Rug Racks. With angled adapter (see diagram) Alda is effective in narrower windows. Always use adapter with 150 w. lamp. Total height (without adapter) 6½ inches, width 4¾ inches. Depth: front to back 6¼ inches; back to center, 2½ inches.



Alda with Adapter—adjusts to desired light distribution



Aldeen No. 101

25-40-60 w. lamps

Designed for wall cases and wherever small reflectors are needed. Use form H holder with 60 watt lamp.



Heat Resisting Color Screens

Stripped glass that will not break or fade from heat, easily adjusted. Furnished in Ruby, Green, Amber and Blue.

LANG'S DAYLIGHT, INC.

1833 East 55th Street

CLEVELAND, OHIO



DO YOU WANT RURAL BUSINESS?

August, 1929 ELECTRICITY ON THE FARM



IS THERE A PLACE FOR THE FARMER IN BUSINESS?

THERE is a very definite and important place in for the progressive farmer just as there is for the merchant or the manufacturer who is alert to modern of the times. Foodstuffs is a highly essential one with an established demand. The farmer's problem, is one of production. He must beat down production cost would increase his profits, and to this end Electricity is undeniably the most valuable of allies.

When he employs this worthy servant, its success depends his selection of the proper system of wiring. Total or partial isolation and the absence of fire protection quite naturally Safety foremost on the list for consideration. Next is Dependability, since service interruptions can rapidly consume profits. comes Economy, a factor in any business investment.

KNOB & TUBE Wiring, a system utilizing hard vitreous Porcelain for insulation offers most in these three important requisites. Porcelain **KNOB & TUBE** installations have for over 40 years proved to be **SAFEST**, most **DEPENDABLE**, and the most **ECONOMICAL**. A silent confirmation of this can be established right in your own neighborhood. Your power company insures continuous service by equipping its lines with Porcelain Insulators. Insulations may come and go but few go on. Porcelain **KNOB & TUBE** Wiring has carried on through the years since the very inception of the Distribution of Electric Energy.

**KNOB & TUBE
WIRING**



**SAFE
DEPENDABLE
ECONOMICAL**

Illinois Electric Porcelain Co.
Macomb, Ill.

Porcelain Products, Inc.
Findlay, Ohio

Knox Porcelain Corp.
Knoxville, Tenn.

Porcelain Products, Inc.
Findlay, Ohio



KNOB & TUBE WIRING

SAFE — DEPENDABLE — ECONOMICAL

Illinois Electric Porcelain Co. Knox Porcelain Corp.
Macomb, Ill. Knoxville, Tenn.



September, 1929 ELECTRICITY ON THE FARM



THE SAME OLD HOKUM

SINCE the first Knob & Tube Wiring System was installed back in '85, there have been substitutes and substitutes each heralded with the patron call—"Here's something just as good." During that span of 44 years, the vitreous porcelain for employing hard vitreous porcelain for insulation, has steadfastly remained the basis for comparison and today need recognize no peers.

Quite naturally the farmer's most feared enemy is FIRE. A direct query to some 18,000 electrical contractors failed to reveal a single case of fire chargeable to the failure of a Knob & Tube Wiring. In one state for a single year there were 522 electrical fires. Chief Electrical Inspector of that state reports that some of these fires could be charged to Knob & Tube Wiring. Another state inspector in an agricultural district officially reported "this fire furnishes further evidence of the superior insulating qualities of Knob & Tube work compared with—", etc.

Lightning is another arch enemy of the farmer, and should therefore be well guarded against. One inspector reports "I know of several places where lightning has broken the system down. This could not happen with Knob & Tube work if properly installed." In other words, who pull "hot" wires through a conductor when those same wires can be strung on non-conductors? Your local electrical contractor is well qualified to discuss the Knob & Tube Wiring System with you. His interest lies in giving you a **SAFE** wiring installation at the least cost and a job he can stand back of. His experience, you will find, points with approval to the Knob & Tube System because it is likewise Strong, Dependable, Unaffected by Moisture, Immune from Corrosion, Insures Long Life, and because it utilizes the oldest and most reliable insulation yet developed—Porcelain.

Call in your own Contractor-Dealer for further particulars and estimates on Knob & Tube wiring, or write the following sponsor manufacturers.

**KNOB & TUBE
WIRING**



**SAFE
DEPENDABLE
ECONOMICAL**

Illinois Electric Porcelain Co.
Macomb, Ill.

Porcelain Products, Inc.
Findlay, Ohio

Knox Porcelain Corp.
Knoxville, Tenn.

ELECTRICAL CONTRACTORS

all over the country are cashing in on this **KNOB & TUBE WIRING CAMPAIGN** being directed to the Farm Trade, because here is something the farmer is ready to buy. Furthermore, here is a system of wiring that is safe—dependable—economical and is noted for its long life.

Contractors in position to handle rural business and who desire active inquiries from the farmer should list their names with the following sponsor manufacturers.

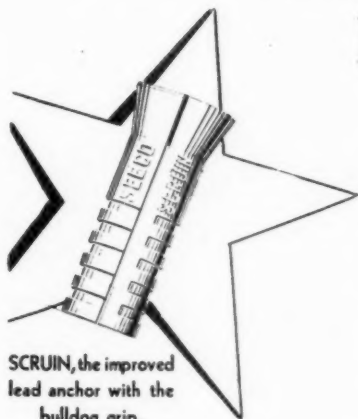


MIGHTY ATOMS!

Tiny as they seem, compared to the giant creations of modern architecture, each of the five Star products plays a potent part in the construction of every type of building—from bungalows to skyscrapers.

STAR EXPANSION BOLT CO.
145 Cedar Street New York

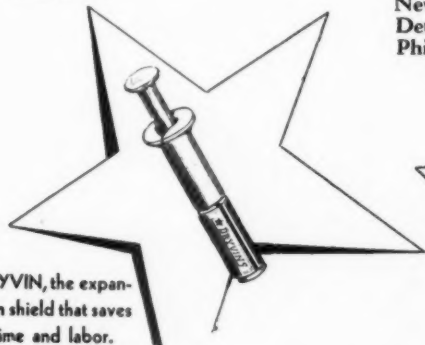
A full stock is carried at these branches:
 New York Boston Cleveland
 Detroit Seattle Chicago
 Philadelphia Atlanta St. Louis
 San Francisco Los Angeles



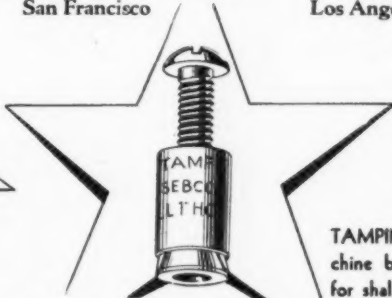
SCRUIIN, the improved lead anchor with the bulldog grip.



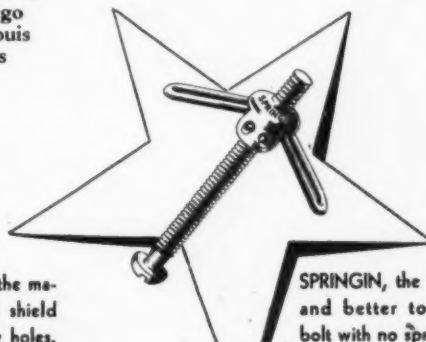
LOXIN, the super-expansion unit for unusual loads.



DRYVIN, the expansion shield that saves time and labor.



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SPRINGIN, the new and better toggle bolt with no springs.

Star Expansion Bolt Co.,
145 Cedar St., New York
Please send me free samples and illustrated literature on the following:

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ADDRESS.....

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NEW
SILVER STEEL HACK SAW BLADES
The Blade with the Blue End

**Cut 6 to 30 times
MORE METAL
as fast as tungsten
blades.**

The Best Value for Your Money
is an assured fact every time you order Atkins
famous **SILVER STEEL Hack Saw Blades**—
the blade with the blue end, because they
cut more and last longer.

Atkins Latest Catalog
is yours on request if you use Hack Saw
Blades, Frames, Metal Cutting Circular
Saws, Hack Saw Machines and Metal Cut-
ting Band Saw Blades and Machines.

ATKINS
**Silver Steel Hack Saw
Blades and Frames**

E.C. ATKINS & Co.
Established 1857
The Silver Steel Saw People
Home Office and Factory, INDIANAPOLIS, IND.
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Branches Carrying Complete Stocks in the Following Cities:
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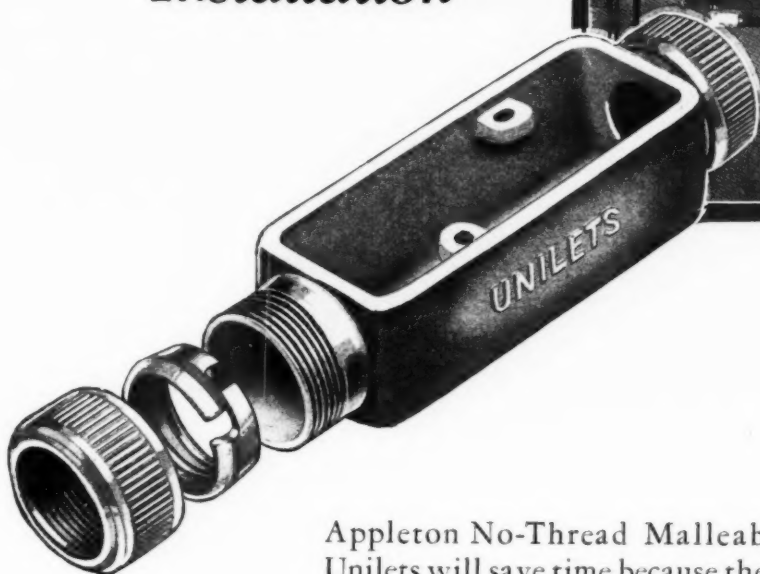
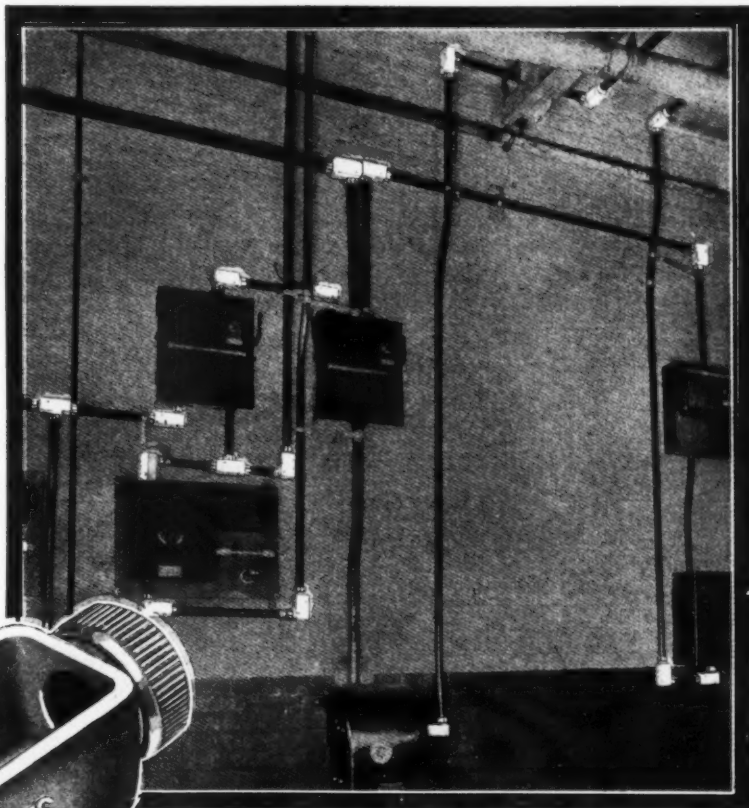
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A Time and Money Saver on any Installation



Appleton No-Thread Malleable Unilets will save time because there are no threads to cut. Just loosen the nut—insert the conduit—tighten the nut—and the job is done.

They will save time because they are easy to install even under the

worst of conditions — in cramped quarters, in corners or with bent conduit.

They will save money because they cut down installation time and because they are practically corrosion proof. They are made of malleable iron and cadmium coated. They show the greatest resistance to rust and constant vibration.

Our catalog shows the many types and sizes that will fill every possible need. Get your copy of this valuable book. Clip the coupon now.

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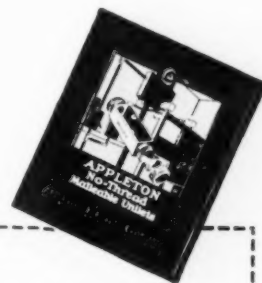
New York—150 Varick St. Los Angeles—340 Azusa St.
San Francisco—655 Minna St. Seattle—628 Railroad Ave.

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No-Thread Malleable UNILETS

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The Original Threadless Conduit Fittings



APPLETON ELECTRIC COMPANY
1704 Wellington Avenue, Chicago

Gentlemen:

Please send us copy of your new bulletin 9-DA on Malleable No-Thread Unilets, together with prices.

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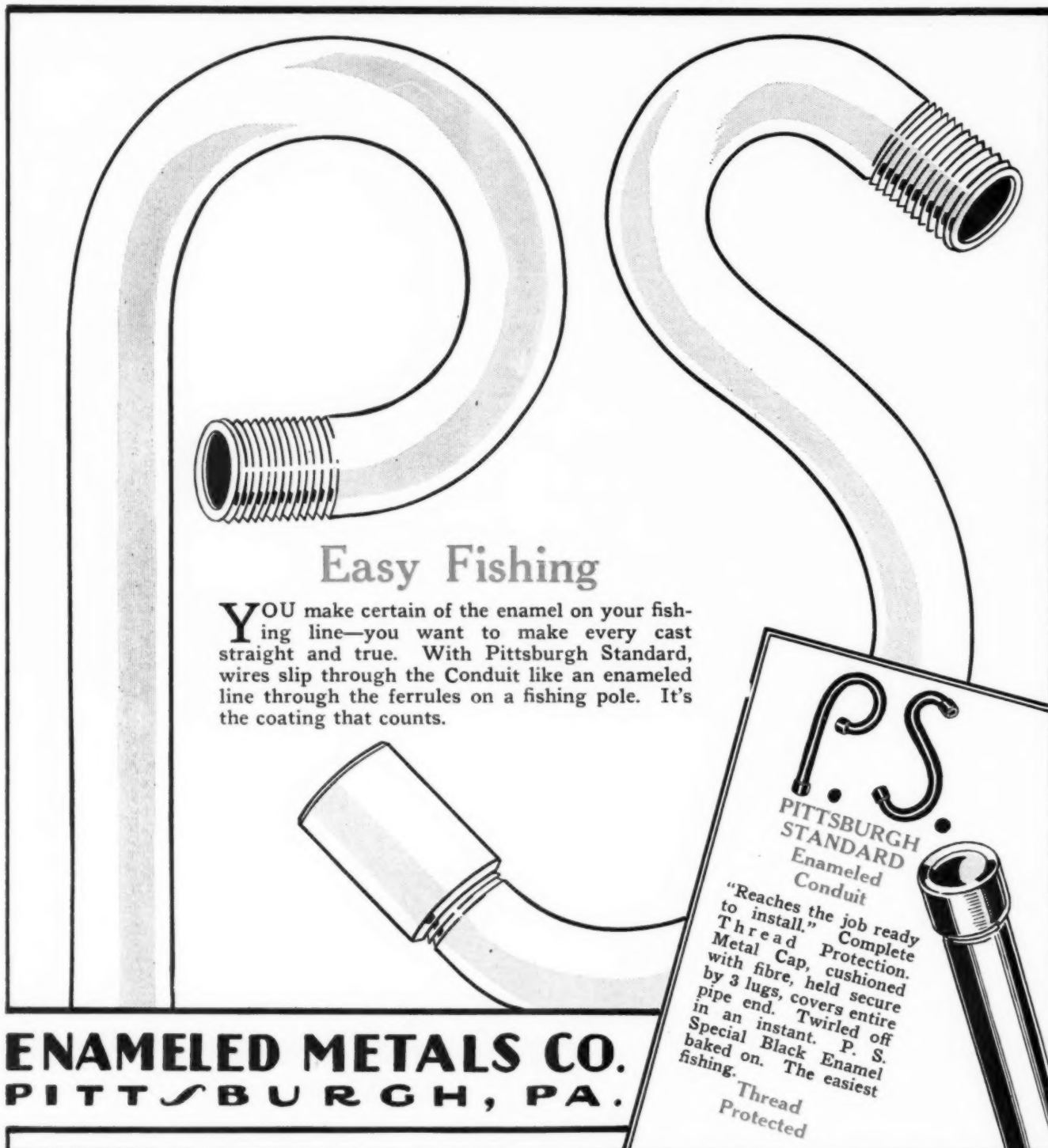
Address

City

State

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Easy Fishing

YOU make certain of the enamel on your fishing line—you want to make every cast straight and true. With Pittsburgh Standard, wires slip through the Conduit like an enameled line through the ferrules on a fishing pole. It's the coating that counts.

ENAMELED METALS CO.
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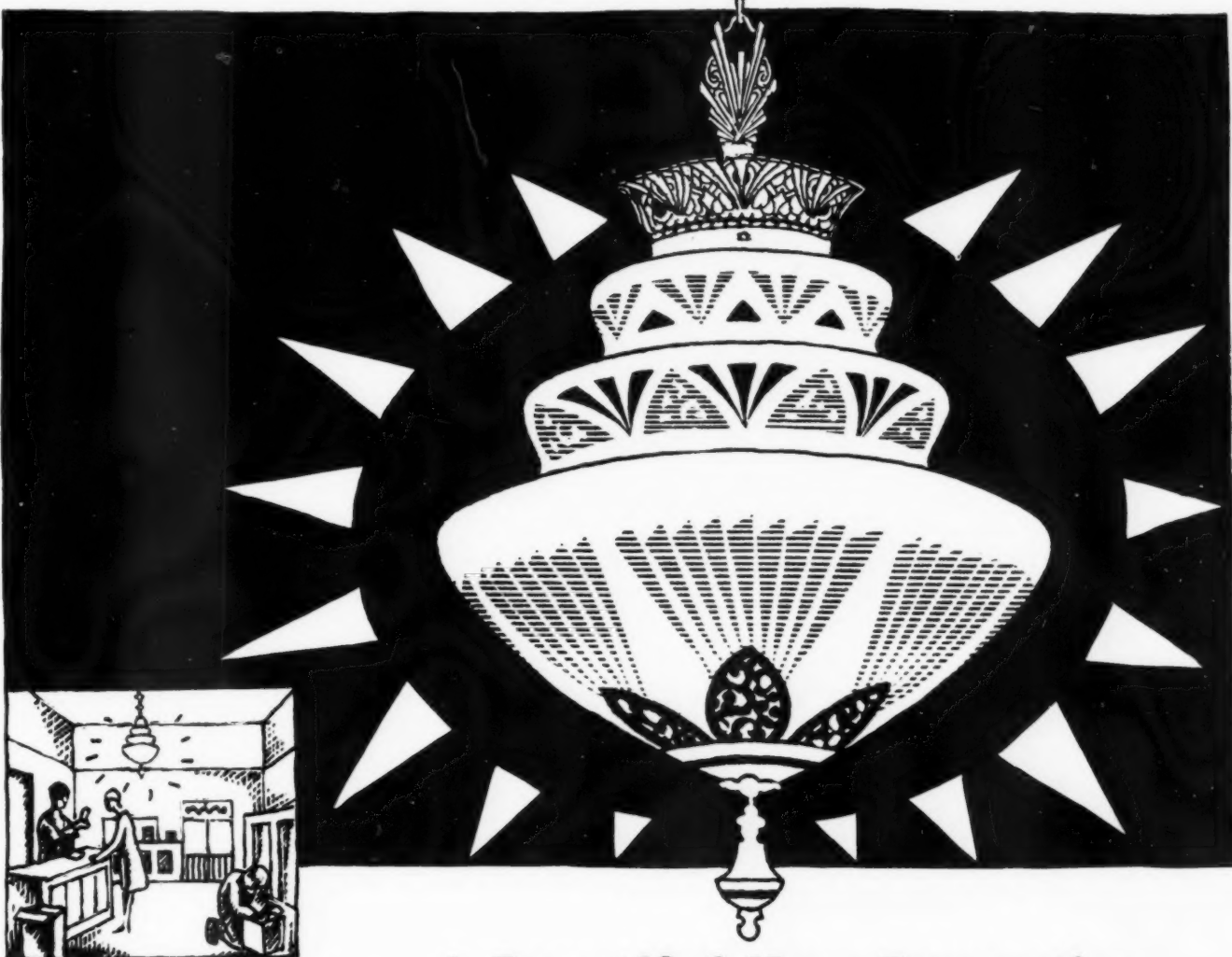
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STANDARD
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"Reaches the job ready to install." Complete Thread Protection. Metal Cap, cushioned with fibre, held secure by 3 lugs, covers entire pipe end. Twirled off in an instant. P. S. Special Black Enamel baked on. The easiest fishing.

Thread Protected

The "Modernaire" In Silver Gray And Black Decoration

Have You
Seen It?



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A Beautiful New Decoration For The "Modernaire"

There is something about the "Modernaire", with its new D-2 decoration, that wins your admiration and favor the moment you see it. The new D-2 decoration is a study in silvery gray lines that gracefully blend with the deep black theme design. This unit is a realism of beauty, unmatched and unrivaled in the art of making luminaires.

Naturally, the "Modernaire", with its D-2 decoration, has gained popularity way beyond that which the "Modernaire", with its D-1 decoration, previously gained. Make it a point to see the "Modernaire". Ask your jobber to show you or send you a "Modernaire" unit, with the new D-2 decoration.

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Inland Glass Works, Inc.,
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Gentlemen:—

I would like a personal introduction to the "Modernaire", with the new D-2 decoration. Send a sample and full particulars to

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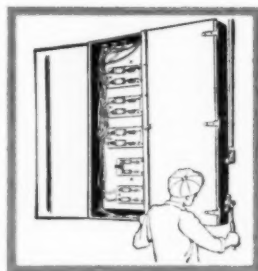
Please invoice this through the jobber shown below

Jobber's Name

You Need These New Tools!



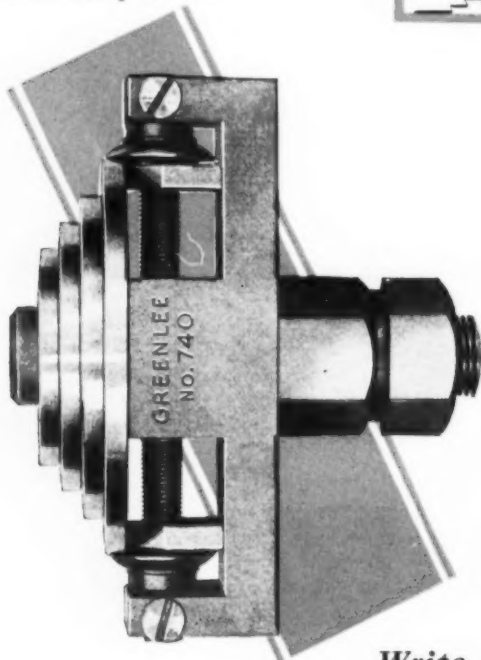
Enlarging holes in switch cabinets, panel boards and other sheet metal equipment **QUICKLY, EASILY and SMOOTHLY**



Greenlee No. 740 Knock-out Cutter for larger sizes of holes. Operation extremely simple. Results perfect.



Greenlee No. 735 Knock-out punches in Four Sizes. Only one and a half minutes to enlarge any knockout.



Greenlee Knock-Out Cutters and Punches increase the efficiency of every wireman by doing their work quickly and in a way that leaves a clean hole. Filing, reaming and drilling entirely eliminated. Additional holes can be cut in cabinet without killing a single circuit. Both tools cut as thick as 10 gauge with a speed that will surprise you.

Write us if your regular source of supply can't take care of your needs.



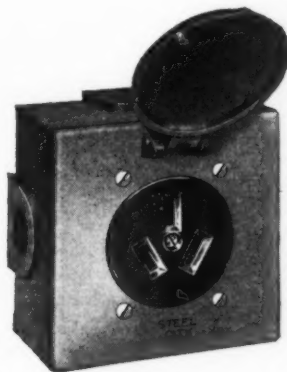
GREENLEE TOOL CO.

Rockford, Ill.

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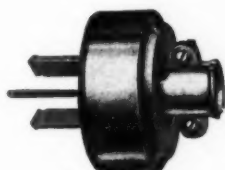


Box No. 1250
30 Amperes

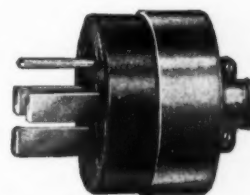


Box No. 1260
60 Amperes

This equipment can be furnished with practically any type of receptacle and plug in 10 to 60 amperes, either two, three or four wire, with and without grounding feature. This equipment is rigidly constructed for use in all types of Industrial Plants, Steel Mills, Railroad Shops, Round Houses, Power Stations, etc.



No. 7113 Plug



No. 7303 Plug

With these new type boxes plugs with cord grips, accommodating cords up to 1¼" in diameter, are furnished. We have prepared an attractive folder giving complete catalog information on this new line and will be glad to mail you a copy upon request. When doing wiring jobs use better made material manufactured by **STEEL CITY** and make real profits.

Sold Thru Jobbers

STEEL CITY ELECTRIC CO.

Manufacturers
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Genuine Bakelite

USALITE

SINGLE and DUPLEX RECEPTACLE
Approved by the Underwriters' Laboratories

**Saves 5 to 10 Cents
Per Outlet**

By using USALITE Duplex Receptacles on every wall and baseboard outlet that you install you can save from 5 to 10 cents on each. These nickels and dimes mount up to a lot of money in a short time and represent a worth while extra profit to every contractor.

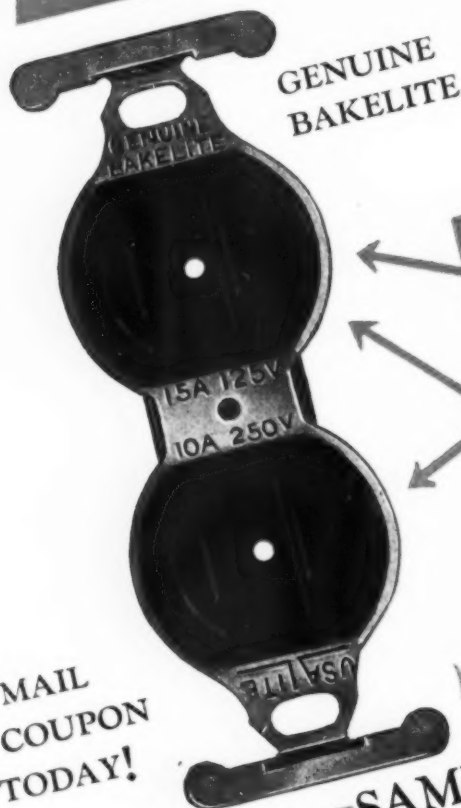
**Eliminates Soldering and
Wire Connectors**

Extra screws for splicing wires—make soldering, twisting and wire connectors absolutely unnecessary. Think of the saving in time and material! Plaster ears make alignment exact.

**Easy Arrangement of Wires
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Extreme shallow depth provides easy arrangement of wires in box and genuine bakelite assures a durable polished face. Blade entrances are polarized to accommodate polarized plugs. Screws are staked. You cannot lose them. Get the free sample today.

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GENUINE
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TODAY!

**FREE! SAMPLE TO
EVERY
CONTRACTOR**

United States Electric Mfg. Corp.
222-28 W. 14th St.
New York City.

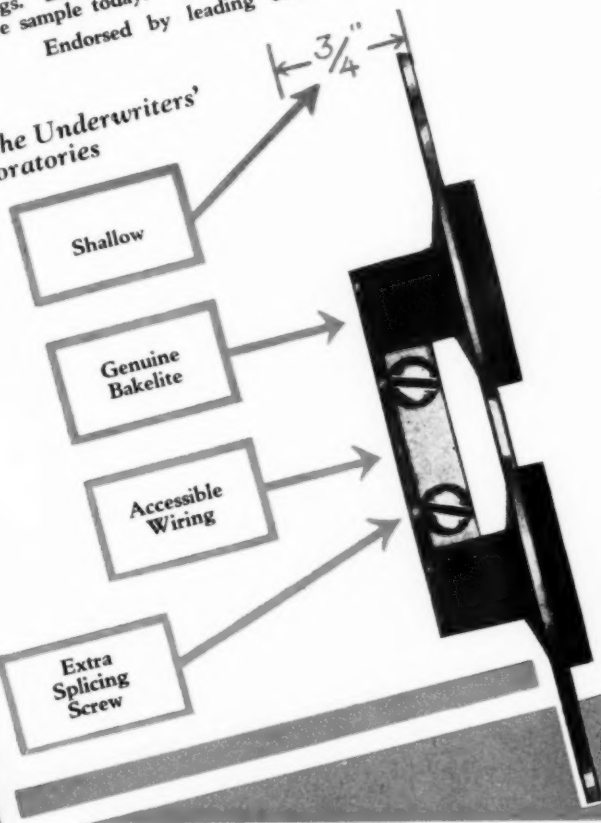
Gentlemen: Please send me at once, without obligation on my part, FREE sample of the new USALITE DUPLEX receptacle.

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***and Better
Nation-wide
Service to
Contractors***



**General Electric
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FROM COAST to COAST

**14 Wholesale Distributors
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NOW

Consolidated -

GENERAL ELECTRIC SUPPLY

COAST

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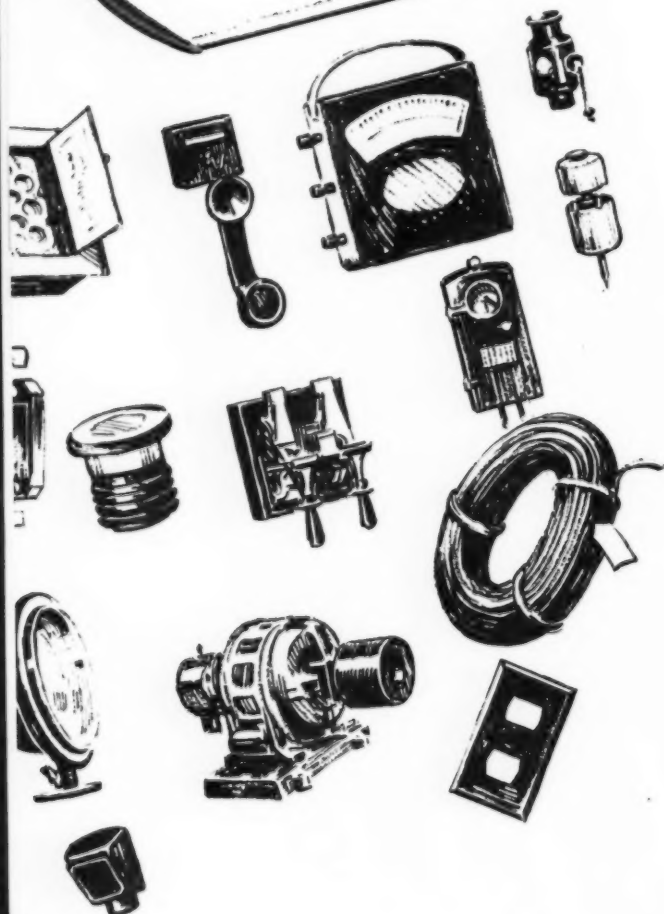
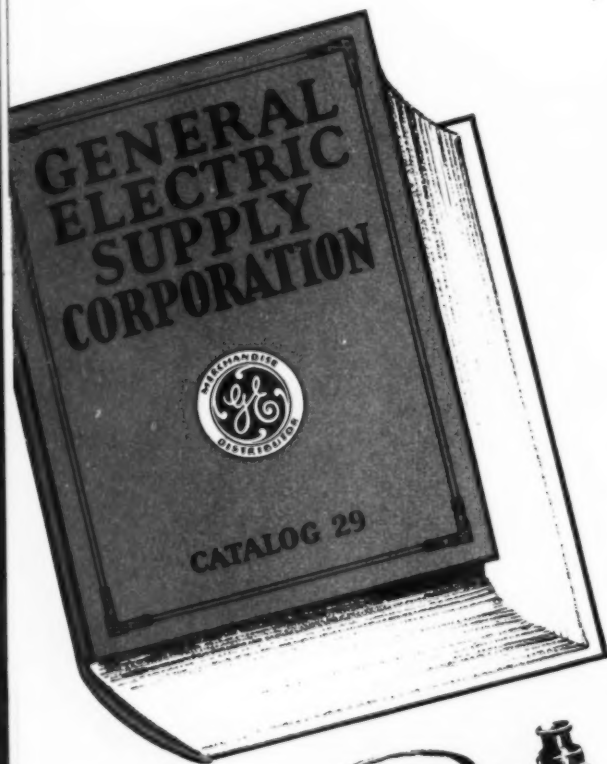


PY CORPORATION

Interchangeability of stocks and speedier and more economical operation is provided immediately with the consolidation October 1 of the 14 distributing organizations owned by the General Electric Company. The plan involves no change of ownership and the new company is known as **THE GENERAL ELECTRIC SUPPLY CORPORATION**. The consolidated corporation is in a much better position to give nation-wide service through ability to deliver promptly from any one of its 76 branch houses. The service to electrical contractors will be made even more satisfactory and afford more intimate contact, speeding and simplifying your many problems.



A UNITED SALES SERVICE *to* *Save You Money* *and* **SPEED** **Distribution**



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Indianapolis

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Louisville

LOUISIANA
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MAINE
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UTAH
Salt Lake City

VIRGINIA
Norfolk
Richmond

WASHINGTON
Seattle
Spokane

WISCONSIN
La Crosse

General Electric Supply Corporation

Minneapolis Association Has Big Program

E. L. Harris, for five years a member of the staff of the chief electrical inspector of Minneapolis, is now field secretary of The Electrical Contractors Association of Minneapolis. The association which was organized early last spring has recently opened offices at 820 Metropolitan Life Building, and is at the present time engaged in a constructive program for the betterment of conditions in the electrical contracting industry in Minneapolis.

Among the new plans under way is included a survey of the costs of new house wiring and the prices to be charged for time and material work after September 1, when a new wage scale went into effect.

The use of the Suggested Resale Price, published in *ELECTRICAL CONTRACTING*, is advocated by the association as a basis for pricing all electrical material sold over the counter or used on the job.

The initial move in a campaign to advertise the association and its members will be participation in an exhibit at the Radio and Electrical Show which will be held in the Municipal Auditorium September 24 to 28.

At a meeting September 9, Fred



GETTING BACK INTO BIG WORK:—R. B. Foster is the retiring president of the Electrical Contractors Association, Columbus, Ohio, but will never cease his activities in this work. He has specialized more or less in residence wiring for some time but is now taking on larger and larger jobs. The lad in the car is his son.

Be the FLOOD LIGHTING SPECIALIST in Your Territory

You know this is an age of specialization—Hundreds of electrical contractors are specializing on floodlighting. Your customers, too, like to do business with the "Specialist"—the man who has gotten farther than the other chap in one particular line. But there is more money in being the floodlighting specialist in your territory than any other branch. This is because floodlighting is new and is becoming increasingly popular everywhere. Our engineers have outlined some 200 different uses for floodlighting. We want to pass our prospect list on to you together with all the facts on how to get the business and how to make more money installing "National" Floodlight Projectors. Won't you let us help you get your share of this profitable business in your territory? Write us at once, without obligating yourself the least bit.

Scientifically designed to deliver maximum light with fewer projectors and the use of less current... weatherproof and dust-proof with simplicity that provides speedy and profitable installation.



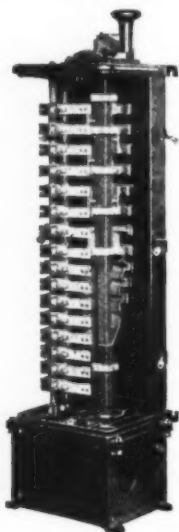
Type SJ 204

National Appliance Co.
Jackson, Michigan
Division of Reynolds Spring Co.

National FLOODLIGHT PROJECTORS

UNION

The
Most Complete Line of
Drum Controllers
in the World



Drum Controllers for a Multitude of Applications

for Traveling Cranes
for Grab-Bucket Cranes
for Ship-Unloading Cranes
for Monorail Hoists
for Contractors' Hoists
for Skip Hoists
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Drum Controllers for all General Purposes for Industrial Control Applications

Also Explosion-Proof "Permissible" Drums

Write for Descriptive Bulletins Specifying Industry Interested in

UNION ELECTRIC MFG. CO.

10th and Juneau, Milwaukee, Wis.

Manufacturers of
Electric Motor Control Apparatus

Also Associated Manufacturer with,
and Eastern Distributor for
DIAMOND ELECTRICAL MFG. CO.
Los Angeles, Cal.

Magnetic Motor Control Apparatus

Dustin was appointed chairman of the code and legislation committee; Frank Langford, chairman of the trade policy and grievance committee, and John Holm, chairman of the program committee.

The association has made arrangements with Dunwoody Institute to conduct a course in "Electrical Accounting and Business Law," open to those engaged in the electrical industry. The course will be conducted by Arthur P. Petersen, former field representative of the Association of Electragists.

* * *

NELA States Position on Cheap Wiring

The National Electric Light Association for the first time placed on record its position as an association on the matter of low cost wiring in a paper read before the Northwest Section of the International Association of Electrical Inspectors last month by Maj. H. S. Bennion, head of the N. E. L. A. engineering department, who stated that the central station executives are not opposed to any recognized commercial product but that

they desired to promote use of all of them.

"They hope," said Major Bennion, "for the installation of every foot of rigid conduit that the traffic will bear and all of the armored cable and metal surface raceway as well. In addition they desire to promote the free use of all other systems of wiring, those that are known as well as those that have yet to be developed, upon the single condition that they comply with the provisions for safety."

Major Bennion stated that the N. E. L. A. has statistics to prove the infrequency of life hazards and "that under these circumstances does it not appear a little absurd to denounce systems showing a modest departure from some of the conventional ideas, as a breakdown of indispensable code standards?"

It is pointed out that the matter of low cost wiring not only should make little difference to the manufacturer or to the jobber; but furthermore, that it would be a matter of indifference to the contractor "since his profit is proportionate to the total cost of the job, and the choice is in favor of



AKRON CONTRACTORS ASSOCIATION:—Left to right, first row seated: John Snyder, Snyder Electric Company; J. W. Garvin; R. T. Brett; G. L. Sanderson, secretary; Harvey Uhl, Uhl Electric Company, president of the association; E. L. Patterson, Patterson Electric Company; J. D. McElroy, East Akron Electric Company; R. J. Dreese, Dreese Electric Company. Second row: E. M. Fox, Fox Electric Company; J. Schaffner, Ernst & Ernst Accountant; E. F. Hershey; B. Nelson, Service Electric Company; John Ramsay, Akron Electric Construction Company; H. Hoisington, Akron Motor and Generator Company; L. T. Jett, Jett Brothers Electric Company; W. R. Brookins, field man of Electrical League; Frank Loomis, Loomis Electric Company; O. G. Jacob, Jacob Electric Company; L. V. Hanna. Third row: S. Sacks, Sacks Electric Jobbers; F. Romito, Romito Brothers; R. Schray, Akron Motor & Generator Company; Don Ross, Ross Bros. Electric Company; J. W. Kinnan, Kinnan Bros. Electric Company and treasurer of the association; C. J. Douglas, Douglas Brothers, Inc., and vice-president of the association, and R. T. Bell, county inspector.

Where it's a Matter of Reputation

Important jobs are invariably awarded to contractors who have established reputations for sound construction. Such contractors insist on wires of unquestioned quality that will not jeopardize their work. That is the reason for the wide use of A-A throughout the country. A-A Code, Red (Intermediate), and Thirty Percent are regularly specified by the leading architects and engineers everywhere.

A-A WIRE COMPANY

BRANCH OF GENERAL CABLE CORPORATION

Offices

BOSTON
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MIAMI BILTMORE HOTEL
Coral Gables, Fla.

Wired with A-A Red
Architects, Schultze & Weaver
Contractor, J. L. Goodrich

*More Economical,
Better, Safer*

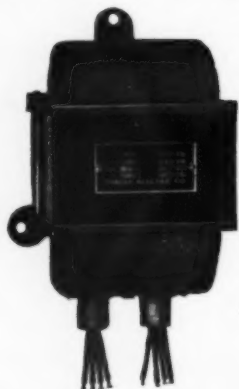
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from Power Service

110-volt lighting can be easily obtained from 220, 440, or 550-volt A. C. power circuits, at a saving that will more than pay the cost of

SORGEL Air-Cooled Transformers

With Conduit Connections
No Extra Fittings Required



Made in $\frac{1}{4}$ to 50 KVA.

Single-phase, 2-phase and 3-phase

110, 220, 440, 550 Volts

Approved by Underwriters

Installations can be made easily and quickly inside of buildings, without enclosures or expensive fire-proof vaults.

Transformers Designed
for Special Applications

Ask for descriptive literature

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Clybourn & W. Water Sts.
Milwaukee, Wis.

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EXCHANGE CREDIT RESPONSIBILITY:—The two sides of card used by Portland (Ore.) Electrical Contractors for exchanging credit information and mutual protection from unscrupulous or bad risk building contractors or companies.

REFERENCE FROM	MANNER OF PAYMENT
SOLD PRICE	DISCOUNT
TERMS	PROMPT AND SATISFACTORY
HIGHEST RECENT CREDIT \$	SLOW BUT CONSIDERED GOOD
OWING NOW	SLOW AND UNSATISFACTORY
ON OPEN ACCOUNT \$	PAYS C. O. D.
ON NOTES \$	SELL FOR CASH ONLY
PART DUE	ACCOUNT SECURED
ON OPEN ACCOUNT \$	NOTES SECURED
ON NOTES \$	ACCOUNT CLOSED FOR CAUSE
FIRST ORDER	MAKES UNJUST CLAIMS
OTHER INFORMATION	COLLECTED BY ATTORNEY

labor since with less costly types, for the same total amount of money expended upon wiring, the amount devoted to labor will be proportionately greater.

"From the point of view of the central station," he continued, "it is, of course, no question since their whole commercial program depends upon increasing the means by which their customers may freely use electric power."

That the multiplicity of wiring systems would serve to confuse the issue he doubted because "diversity of this kind will cure itself by the inevitable victory of the best systems, that is, those having the best utility."

After asking the inspectors at the meeting for "an open mind when you deal with new methods, and new modifications in old methods," the speaker said: "You will meet and deal with them (new methods) is a certainty. Some are already in the field although not in the code and you know about them. Others that I think you do not know, will appear, and whether they appear first in the code or in the field will depend very largely, almost wholly, indeed, upon the ability of the elec-



for Floodlighting
Displays



No. 983



for Signs—
No. 918

for Show Cases



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or for Factories

No. 547



Industrial Lighting presents various problems, but for every one of them, there is an OAMCO unit. The more popular styles are shown. They do the job.

**OVERBAGH & AYRES
MFG. CO.**

413 S. Clinton St.

Chicago, Ill.

My Business is Different

You may think it is, yet the fact remains that all businesses are common in their fundamental operations and objectives including Electrical Contracting.

There is Money in Contracting

Most people are willing to pay a fair price for your goods and services but many Contractors fail to realize that any job taken at a price which does not cover their overhead and leave a fair profit is a liability rather than an asset.

Know — Don't Guess

Hundreds of successful Contractors all over the United States and Canada have solved their pricing problem by using the NATIONAL ELECTRICAL RESALE PRICE SERVICE. This Service is operated by experienced electrical men and the fees and terms are arranged so that even the smallest Contractor cannot afford to be without it.

Investigate — It Will Pay You

If you are interested in a plan to save your valuable time and increase your profits, we will gladly mail you full particulars without obligation but please attach your letter-head to the coupon below as the Service is furnished only to those engaged in the Electrical Business.

The National Electrical Resale Price Service

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In Canada
Henderson Business Service Ltd., Brantford, Ontario

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son-Hazel
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5005 Euclid Ave.,
Cleveland, O.

Without obligation
send us full information
about the NATIONAL
ELECTRICAL RESALE
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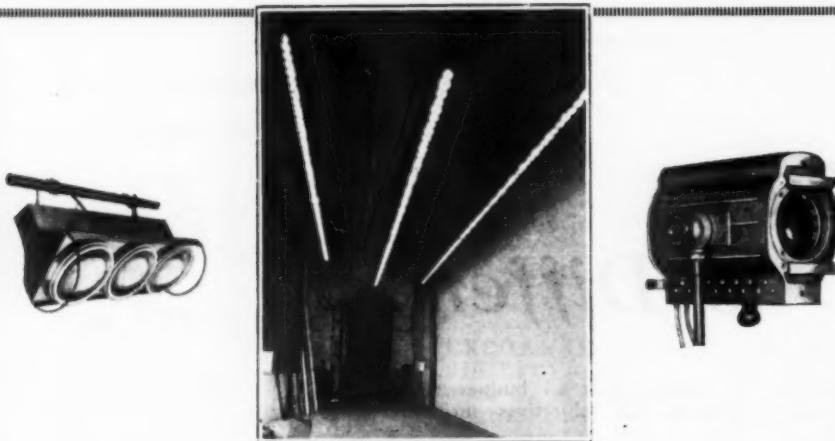
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City or Town

State

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HEREAFTER
BEL-SUN-LITE
 ALL THEATRE JOBS

The manager gets this flood of light for less than half it used to cost him: you get a much better profit from the job. The public sees the show better under Bel-Sun-Lites and gives the actors a better "hand," so everybody's happy. Hereafter, Bel-Sun-Lite every theatre job. You can do it completely with Bel-Sun-Lite. We make every type of lighting equipment used in a theatre.

Ask our nearest representative to help you figure. He has had wide experience in theatre lighting. He can show you the way to make more money yet underbid competition. His name is in the classified phone book of these cities:

Atlanta, Ga.	Houston, Tex.	Minneapolis, Minn.	Richmond, Va.	Tulsa, Okla.
Buffalo, N. Y.	Indianapolis, Ind.	New Orleans, La.	St. Louis, Mo.	Tampa, Fla.
Delaware, O.	Kansas City, Mo.	Omaha, Neb.	San Antonio, Tex.	
Ft. Worth, Tex.	Los Angeles, Calif.	Pittsburgh, Pa.	San Francisco, Calif.	
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*For Speedier
 and Easier
 Service Entrance
 Installations*

ADAPTi Service Entrance Fittings and Entrance Ells are designed to take the "bugs" out of service installation jobs. And steady repeat orders from "all over" tell us they're doing it right along.

This Adapti Entrance Ell is weather-proof without the use of a gasket and holds conduit close to building. Cover is held in place by overlapping flange on fitting and locked by onescrew. Hole for condensation drainage drilled free of charge if desired.

Specify ADAPTi Fittings



Service Entrance Cap Fitting which cuts cost of threading wires through insulating cover, and of pulling through. Entire top is detachable by removing two screws. Overhanging cover flange assures weatherproofness.

The ADAPTi Co.

2996 East 72nd St., Cleveland, O.

NEW YORK CITY

A. Stone, 112 East 23rd Street

PHILADELPHIA, PA.

Craven Elec. Sales Co., 30 Bank Street

BOSTON, MASS.

E. R. Bryant, 241 "A" Street

trical inspectors of the country, collectively, to deal on engineering lines with the appearance of these new things."

* * *

**Allen Heads City
 Electricians**

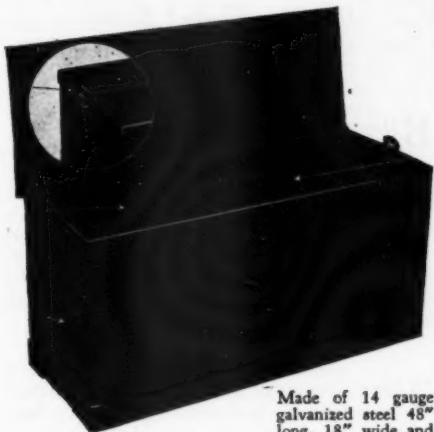
The International Association of Municipal Electricians held its thirty-fourth annual convention at the Hotel Statler, Boston, Mass., during the week of August 19. More than five hundred delegates from all over the country attended the numerous sessions.

George P. Allen, of Jacksonville, Fla., was elected president for the ensuing year. Other officers elected were C. J. Reading of Salt Lake City, first vice-president; H. H. Berry of Springfield, Mass., second vice-president; L. R. Haight of Binghamton, N. Y., third vice-president; M. J. Donohue of Niagara Falls, N. Y., fourth vice-president; Harold M. Lang of Orlando, Fla., secretary; W. A. Dilzell of New Orleans, treasurer. C. J. Reading was elected chairman of the executive committee, and Robert J. Gaskill of Fort Wayne, Ind., chairman of the finance committee.



PROMOTES GOOD WILL BETWEEN TRADES:—C. Leshner, head of the Dayton electric contracting firm of the same name, is always trying to promote good will and cooperation among different classes in the business. When this picture was taken he was about to lead a large party of electrical jobbers out into the country for a Labor Day week-end.

new! theft-proof STEEL TOOL BOX



Made of 14 gauge
galvanized steel 48"
long, 18" wide and
24" deep.

and material holder

Built for every contractor and wireman. Note the lock arrangement on this new portable steel locker and the sturdy construction throughout. Corner irons give additional strength and protection. Heavy chain holds cover in place when lid is open. Angle iron full length of box permits tray to be moved in either direction without removal to get at material stored in bottom of box. Any number of small fittings can be accommodated in four compartment tray.

Your name stenciled on box Free!

Consider the expense of delaying to own one of these theft-proof steel tool boxes now. Handy, indeed, and so convenient to carry on the job anywhere and guard your property. Order today from your jobber, or write us direct giving us his name.

**ELECTRIC
APPARATUS CO.**
Mfg. Switch and Panel Board Steel Cabinets
702-706 N. HALSTED ST.
CHICAGO



SELLS WIRING WITH RADIO SERVICE:—E. E. Evans, head of the Eastern Electric Shop, Cleveland, O., has three radio service men who do nothing but install and service radios; in connection with this work, he has secured many side orders for outlets and small changes in the homes where his men are working. In addition he is under contract with several radio dealers to install aerials for them.

Lightning Code Being Printed

The N. F. P. A. Lightning Code submitted at the 1929 annual meeting is being reprinted in pamphlet form for general distribution. The text incorporates a number of editorial changes as authorized at the meeting and subsequently approved by the executive committee of the N. F. P. A. Cuts of typical lightning rod installations have been inserted to illustrate the text.

* * *

Standard Service Re- quirements

A marked advance in the standardization of service requirements of power companies has been secured by the Metropolitan Electrical League in the removal of all major differences in requirements and a new draft of rules by the Edison Electric Illuminating Co., Boston, the Malden Electric Company and the Cambridge Electric Light Company.

Coming shortly after the standardization of wiring code requirements in suburban Boston, it has served to eliminate many of the problems of electrical contractors working in the Boston area.



ROTARY HACK SAW



B-2 Tool embodying 9 conduit sizes— $\frac{1}{4}$ " to 4", blade depth, $\frac{3}{4}$ "—\$13.50. B-4 Tool, 6 conduit sizes— $\frac{1}{2}$ " to 2", blade depth, $\frac{1}{2}$ "—\$7.00.

cuts outside diameters
of iron pipe or conduit
in
one-tenth the time.

Fully adjustable and can be used with electric drill—clean quick holes in metal, slate, marble and bakelite. Speeds the work and makes the job more profitable for electrical contractors.

MISENER SAFETY CONDUIT SEALS



These seals are inexpensive—Plugged up conduits are costly.

of heavily waxed fibrous stock makes exposed conduit air and water-tight while conduit is being installed. Easily punched out with screw driver when ready to fish the wire. Prices— $\frac{1}{2}$ " package of 500, .20 per hundred; $\frac{3}{4}$ " package of 250, .25 per hundred; 1" package of 250, .25 per hundred; 1 $\frac{1}{2}$ " package of 150, .30 per hundred; 2" package of 150, .35 per hundred; 2 $\frac{1}{2}$ " package of 100, .50 per hundred; 3" package of 100, .70 per hundred; 3 $\frac{1}{2}$ " package of 100, .90 per hundred.

Order today from your jobber, or write us direct, giving us his name.

Tools, Blades, Seals Pat.

MISENER MFG. CO., Inc.

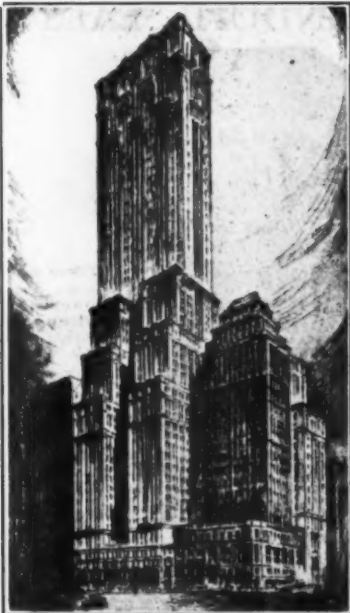
Syracuse Dept. A New York
Canadian Distributor:
W. Geo. Borland, 1240 Union Ave.
Montreal

Fretz-Moon

FRETZ-MOON TUBE CO., Inc., Butler, Pa.

For speedy work and a saving of time and labor, use FRETZ-MOON Conduit.

RIGID CONDUIT



Lincoln Building, New York
IDEALS used exclusively
Lord Electric Co., New York, Contractors

Why Are IDEAL Wire Connectors

Used in America's
Finest Buildings
and Biggest
Industrials?

—because the country's leading electrical contractors' engineers have found them most satisfactory in every respect.

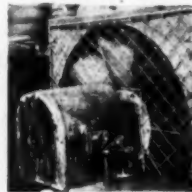
You can do better work—make more money and under-bid with IDEALS.

Solderless — Tapeless — Screw on like a Nut.

Fully Approved by Underwriters' Laboratories — Recommended in N. E. C. Fully protected by original patents.



For All Wiring Joints!



IDEALS are used wherever wiring joints are made: New construction wiring, re-wiring, fixtures, appliances, machinery, radios, vacuum cleaners, etc., etc., etc.

Ideal Commutator Dresser Co. 1029
1041 Park Ave.
Sycamore, Illinois.
☐ Please send me trial carton of Ideal
Universal Wire Connectors which fit any
roughing or fixture joint, 100 for \$3.35.
☐ Please send me sample connector.

Name
Address
City State.....
Jobber

A ROLL O' TAPE



*Electrical flash-
es gathered
among the Big
Wire-and-Pipe
Men by*

Coit A. (Duke) Smith

Field Editor, ELECTRICAL CONTRACTING

BIG jobs are always interesting, and the new Merchandise Mart, under construction in Chicago, is no exception. The electrical installation is being made by the A. S. Schulman Electric Co., of that city. What struck me at once was the ground a fellow has to cover in going over this structure—one trip and your shoes need half-soling.

THE business of the Hughes Electric Shop, Kalamazoo, Mich., has been carried on ably by Mrs. Frances Hughes since the death of her husband. Although most of the work is industrial, the firm does some nice residence wiring as well; sixty-eight openings in a seven-room house isn't half bad. Not so long ago Mrs. Hughes got the work on five homes in one week, without competition or solicitation, as a result of word-of-mouth advertising.

EVERY year Fred C. Hill, Hill's Electric Shop, Crown Point, Ind., has a booth at the County Fair, in his city, to advertise better wiring to the public. This year Fred was not feeling so well, and donated the space to the Calumet Electric League, which promptly made it a Red Seal Plan and Light's Golden Jubilee exhibit. As usual, the booth was a big success. Fred wants it broadcasted that his friend L. P. Halligan, Electrical Construction and Supply Co., Hammond, worked until midnight one night, putting on the finishing touches.

AN old anecdote about Bill Goodwin bobs up every now and then. Bill was making a talk to some contractors, and, after stating that they were the backbone of the electrical business, asked what he could do to help them. "That's easy, Bill," said an old stager, "bring on a good chiropractor."

SPEAKING of real old timers in the business, there is Bob London, of Constantine, Mich. Bob writes he is 65 years old and is taking things easier now, but does quite a business on wiring, repairing, fans, motors and appliances. He started in light and power work in 1893, and installed the first A. C. motor in Grand Rapids in 1897.

GEORGE W. McSHANE, the South Boston, Mass., contractor, has a time clock in his own home, because he believes a contractor should practice what he preaches and electrify his own place as well as those of his customers. This clock turns the lights on and off and is great protection against burglars when the family is out. In addition, he has used it as a demonstrator, making a healthy number of sales, some of them to his immediate neighbors.

IT takes a real sport to tell a joke on himself, so the contractor in this case must be nameless. "You can imagine my embarrassment," he says, with a chuckle, "I went down to a plant to look over a job of re-wiring we were going to do, and found the work had been put in very sloppily, even for the time when it was done, about 10 years ago. While I was expressing my opinion of anyone who would do such a job, one of our oldest men breezed in and informed me that my own firm had done the work originally. Needless to say the cigars were on me."

IN making the rounds among many different kinds of jobs the electrical contractor gets in some dangerous spots. I can testify that J. A. Overmeyer, of the Overmeyer-Thatcher Co., Toledo, is a quick thinker and a quick mover. We were watching some men trying to get a caterpillar tractor out of the mire on a dredge job. We stood close to the tractor while a man ran a steel cable from the machine and hooked it to the big pipe that was sucking mud and rocks out of the river. "Uh-oh!" says J. A. "This is no place for us—that rope will snap." We moved out of range, and sure enough, she popped at the first strain and passed over the spot we had left like a whiplash. Thanks, J. A.

SPEAKING of sad disappointments, this one almost floored me. While heading for the elevator to visit a contractor in a large building I saw that the contractor had a big sign on one of the pillars in the lobby. This looked like real progressiveness, but when I arrived at the proper floor, I found the firm had been out of business two years, and there was a pile of dusty mail in front of the door. R. I. P., and how!

B. M. NILSEN, of the Service Electric Co., Akron, O., has a fine boost for the Electragists' system of accounting. His firm discarded a system that cost \$100.00 to put ours in, and he says it is the simplest and most enlightening he ever saw. Incidentally, the Akron Electrical Contractors Association exhibits each month, on a big blackboard, the actual figures from 10 unidentified firms, showing sales volume, various expenses, overhead, etc., in both dollars and cents and percentages. All the members get as close to the board as possible and the ensuing study and discussion certainly bring results.



Send for our
Bulletin 527

Trester Air Cooled Transformers

For
LIGHTING
SYSTEMS and other
INDUSTRIAL USES

REPLACE condemned balancing coils with transformers that conform to the New Code. They are safe, economical and efficient in operation.

Connect lighting load to 220, 440 or 550 volt power mains.

A field for business during the slack months.

Representatives desired in principal cities and Industrial centers.

TRESTER SERVICE ELECTRIC CO.

49 E. Wells St., Milwaukee, Wis.

"Trester Service Since 1908"

industry. And very nearly
that D & W quality is indispen
Not surprising when you consider how
& W has been ... A lot can
earned in a ... W has learn
t. So have the industrial plants
the railroad companies,
the paper manufacturers
and innu have been
using D & W every indus-
try in America uses to pro-
tect its most machinery; an
tightly. Those guardians of t
machinery. How faithful they are to their tr
in the long record of their perfor
ard is a record of practically
Whatever a fuse can do

**D&W
FUSES**

are among the 60,000
items distributed by
GraybaR

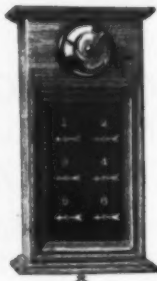
OFFICES IN 72 PRINCIPAL CITIES

EXECUTIVE OFFICES:

GRAYBAR BLDG., LEXINGTON AVE. AND 43RD ST., NEW YORK, N. Y.



ANNUNCIATORS



No. 303

The Ansonia line of Annunciators offers a variety to fit every conceivable demand. For houses, hotels, offices, elevators, etc. They offer mechanical and electrical perfection which only can be obtained by years of specialized manufacturing experience. These may be obtained through any electrical jobber.

Write for 64-page catalog E which illustrates annunciators and our complete line of other electrical house goods.

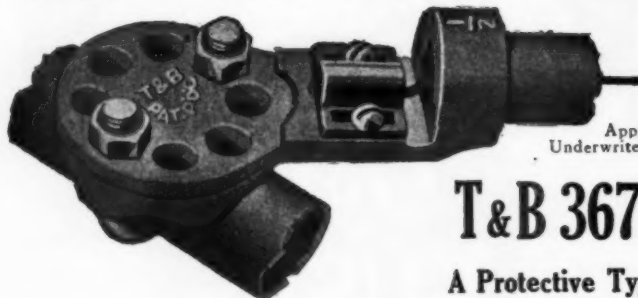


THE ANSONIA ELECTRICAL CO.
ANSONIA, CONN.

ANNUNCIATORS — BELLS — BUZZERS — PUSH BUTTONS

ELECTRICAL HOUSE GOODS

The New Code Ground Fitting



Approved by
Underwriters' Laboratories

T&B 3670 Line

A Protective Type Fitting

The 1929 National Electrical Code and Inspection Authorities
Require Protective Ground Fittings.

1. It completely encloses ground wire and protects it from injury.
2. It bonds the ground conduit and conductor rigidly to the water pipe—providing a ground for both the conduit system and the system neutral conductor.
3. It is easy to install—combination solder and solderless wire clamp—adjustable U bolt—all nuts and screws on one side of fitting.
4. It takes $\frac{1}{2}$ " to 1" ground conduit and $\frac{1}{2}$ " to 2" water pipe.
5. TABOLITE plating protects it from corrosion—assuring 100% efficiency.

Cat. No.	Description	PRICES	
		Stand. Pkg.	Stand. Pkg. Net Cost Each
3670	$\frac{1}{4}$ " Conduit to $\frac{1}{4}$ " to 1" Water Pipe	50	\$0.50
3671	$\frac{1}{4}$ " Conduit to $\frac{1}{4}$ " to 1" Water Pipe	20	.85
3672	1" Conduit to $\frac{1}{4}$ " to 1" Water Pipe	10	1.35
3680	$\frac{1}{4}$ " Conduit to $\frac{1}{4}$ " to 2" Water Pipe	50	.50
3681	$\frac{1}{4}$ " Conduit to $\frac{1}{4}$ " to 2" Water Pipe	20	.85
3682	1" Conduit to $\frac{1}{4}$ " to 2" Water Pipe	10	1.35

THE THOMAS & BETTS CO.
15 PARK PLACE, NEW YORK, N. Y.

New Flexible Cord Standard

Announcement has been made by the Flexible Cord Group of the National Electrical Manufacturers Association of a new standard which will greatly increase the mechanical strength and improve the serviceability of flexible cord.

The new specification—which becomes effective January 1, 1930, and after which no cord not fully complying with it will be labeled by the Underwriters' Laboratories—reads as follows:

"All dry braids, both individual and overall, shall be braided of cotton, rayon or silk in such a manner as to result in all adjacent individual parallel threads actually touching each other, and shall show no visible open spaces, when observed through a standard braid counter."

It is also stated that cords complying with the National Electrical Code can be identified by the following points

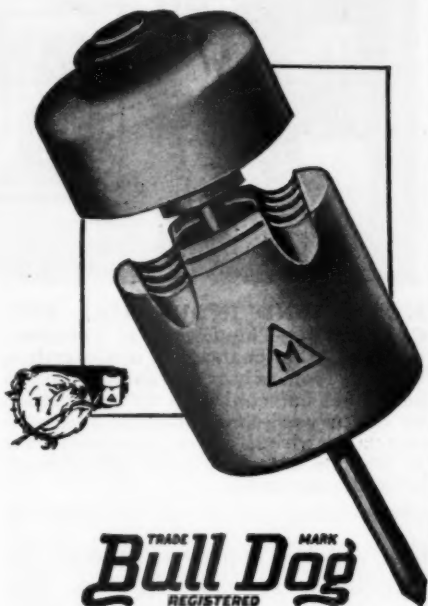
1. The parallel threads of all braids must touch when viewed under an ordinary single lens pocket magnifying glass.
2. The rubber covering must be tough and stretchy, similar to that on a good grade of code wire, and of the required thickness.
3. The copper conductors must either be tinned or protected by a fibrous covering to prevent corrosion.
4. The minimum copper size for a standard cord is No. 18 AWG, usually made up of sixteen strands of No. 30 AWG.
5. All Underwriters' Laboratories standard cords contain manufacturers' identifying marker threads as required by code and as given in Underwriters' List of Inspected Electric Appliances.
6. Underwriters' labels further identify Underwriters' Laboratories standard cords.

* * *

Offers Home Lighting Course

A fundamental course in general and decorative home lighting will be offered by the Westinghouse Lighting Institute, October 7, 8 and 9, at the Grand Central Palace, New York City. This course is designed for men and women who are interested in producing unusual and attractive effects in home lighting, and will embody a series of talks and a comprehensive inspection tour supplementing the lectures.

"It has a grip like its namesake"



Split Knobs

THESE are the safe, approved knobs for all types of residence wiring. They mean better jobs at no added cost. Bull Dog Split Knobs, together with Illinois Porcelain Tubes, Cleats and Solid Knobs form a complete line of standard porcelain.



Sold Through Wholesalers

Illinois Electric Porcelain Co.
Macomb, Illinois

house Lighting Institute, a visit to the National Electric Exposition, and a personally conducted trip through some of the large metropolitan show rooms will supplement the lectures.

* * *

Outlet Box Standards Approved

The American Standards Association recently announced its approval, as an American standard, of Underwriters' Laboratories' standard for outlet boxes. This marks the completing of the first step in a comprehensive program for securing a nation-wide, formally recognized status of Underwriters' Laboratories' specifications for electrical apparatus, devices and materials. These specifications are applied by the Laboratories to manufacturers' products submitted for test and classification and intended for use in the installation, in consumer premises, of electric wiring and apparatus, according to the National Electrical Code.

The text of the newly-approved standard for outlet boxes is a compilation of requirements which, for some time, have been recorded in the National Electrical Code, in the standards of the National Electrical Manufacturers Association and in the specifications of the electrical department of the Laboratories. The approved text was prepared in co-operation with a committee of NEMA and before submittal for approval was circulated for review and comment to all interested manufacturers as well as to a number of member and co-operating bodies of the A. S. A. group.

Standards for a number of other products, devices and materials included in the comprehensive list of the above scope are being prepared for early submittal and like review. It is to be expected that relatively large numbers of such approved standards applying to the Laboratories' electrical work will be available within the next twelve months.

Underwriters' Laboratories was the first co-operating body to be listed as a "proprietary sponsor" with the American Standards Association. Coincidentally the standard for outlet boxes is the



Type ZMO-100

Big Profits in Electric Time Switch Installations

And with SAUTER
you keep the profits
that you make
because of its accuracy, dependable
performance and trouble-free qual-
ities.

It has an *unexcelled*
Service record

More than 100,000 in use
throughout the world

There are many new uses for Time
Switches today. Get your share of
this business. Our interestingly il-
lustrated Bulletin will tell you
about them. Simply mail the
coupon. No obligation of course.

SAUTER

Time Switches

R. W. CRAMER & CO., Inc.
136 Liberty Street, New York

Please mail me your
Bulletin C2 with infor-
mation about the many
new uses for Sauter
Electric Time Switches.

Name.....
Address.....
City.....

Time proves all things especially the quality of rigid conduit



Approved
by the
Underwriter's
Laboratories

"GALVADUCT" electric conduit is given protective treatments that make it do a lifetime job. When "GALVADUCT" is installed the wiring system is thoroughly protected for the future as well as for the present.

Garland Mfg. Co. Pittsburgh, Penna.



Telephone Systems

Holtzer-Cabot telephone systems for banks, offices, schools, factories, clubs and hospitals have been extensively used for over forty years.

A new bulletin, showing our full line of intercommunicating systems and telephone switch board systems has just been issued—No. 148, Section A.

Full description of apparatus with complete diagrams and wiring information is given. Copies gladly sent on request.

The Holtzer-Cabot Electric Co.
Boston ::: Chicago



MOTOR AND INDUSTRIAL SPECIALISTS:—The Electrical Construction and Maintenance Co. of Columbus, O., was somewhat reorganized as to personnel but continues to concentrate on motor work and industrial and commercial rewiring. The proprietors are A. Daubitz and F. Benner. Mr. Benner is in the doorway.

first to be approved under the proprietary sponsorship plan. The Association's rules define proprietary sponsorship as appropriate where the organization occupies a position of predominant importance in the field, and where the necessity for co-ordination of a group of standards is paramount. Such co-ordination is of evident paramount importance in the activity covered by the scope above.

* * *

Convention Program of Southern Inspectors

Plans have been completed for the program of the first annual meeting of the Southern Section of the Association of Electrical Inspectors which will be held in Atlanta, Ga., Oct. 15, 16 and 17. There will be a symposium on "The National Electrical Code" at the morning meeting, October 15 which will include: "From the Standpoint of the Public," by Dr. M. G. Lloyd, chief, Section of Safety Engineering, Bureau of Standards; "From the Standpoint of the Manufacturer," by A. Penn Denton, National Electrical Manufacturers Association; "From the Standpoint of the Public Utilities," H. L. Wills, Georgia Power Co.; "From the Standpoint of the Electragists," H. B. Kirkland, Society of Electrical Development;

"From the Standpoint of the Inspectors," V. H. Tousley, Secretary, I. A. E. I.; "From the Standpoint of the Underwriters," by R. P. Strong, Louisiana Rating and Fire Prevention Bureau.

During the afternoon of that day there will be committee reports and the following addresses: "Armored Cable," by H. A. Calderwood, chief engineer, National Electrical Products Corp.; "Insulation," by George Schoen; "Flexible Cord Problems" (speakers to be announced later); "Overload Protection for Motors," by R. B. Shepard, Underwriters' Laboratories, Inc.; "Grounding of Secondaries" (speaker to be announced later).

"Operation of a Municipal Electrical Inspector's Office," by C. S. Whitaker and "Neon Signs," by Dr. M. G. Lloyd are among the subjects to be discussed at the morning session, October 16. During the afternoon there will be talks on "An Electrical Inspector's Problems," by L. T. Rogers and "Stumbling Blocks Removed—Questions and Answers," by N. E. Cannady.

* * *

Armored Cable Industry Unites on A.B.C.

Statement by A. Penn Denton, Engineer-Director
Armored Conductor and Metallic Flexible Conduit Section, N. E. M. A.

It is natural that over a period of years the changes brought about in the design and manufacture of armored cable should have resulted in some criticism that the material was being cheapened, and that it has not been as good a product during the past three years as formerly.

In answer to this criticism from inspectors and contractors, the armored cable manufacturers have established the fact from statistics gathered from inspectors in all parts of this country, that where armored cable has been manufactured of uniform quality, in accordance with the Underwriters' Laboratories standard specifications for the cable, and where properly installed, the armored cable of recent years has been just as satisfactory a wiring material as it was twenty years ago.

This criticism and the com-

Tighten it with your fingers-- then try to pull out the conductors!



See for yourself how tightly the PENN-UNION "T" Connector holds—without solder.

The unique lock-nut action gives a connection that is *permanently tight*, mechanically and electrically.

Vibration can't shake it loose—overcharges won't damage it. Clamping pressure on main and branch conductors is equalized.

We ship from stock all types and sizes of PENN-UNION Connectors for conductors up to and including 500,000 CM. And we make prompt delivery on the larger sizes too.

Write for Bulletin "E," showing the latest improvements in electrical connectors—and the complete PENN-UNION line, with prices.



The simplest connector made. Only four parts. Quicker to put up.

PENN-UNION ELECTRIC CORPORATION

Eric, Pa.

PENN-UNION CONNECTORS

HOLD TIGHT — REALLY SURENESS

SURGES AIR-COOLED TRANSFORMERS

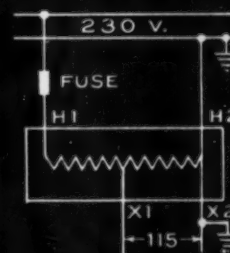


1/2
to
50
K.V.A.

Single,
Two,
or
Three
Phase

CONSULT US ON YOUR
SPECIAL AND STANDARD
TRANSFORMER NEEDS.

Write for Bulletin 112.



New Code Transformer
for Polarity Wiring
(Type SA, single phase)

SURGES transformers are specially designed for factory installations—for the economical operation of low voltage incandescent lamps, portable tools, fans, welders, etc., from power mains. They are easy to install and meet the requirements of the National Board of Fire Underwriters.

SURGES ELECTRIC CO., Milwaukee, Wis.



A BIG MONEY SAVER

Eliminates triple handling—unwinding—measuring and rewinding wire, thus saving time and money.

Manually operated—reels wire into neat coil, automatically counting and registering number of feet.

Strongly built of heavy selected materials so as to last a lifetime.

It Pays for Itself

Send for bulletin.
Write us or your jobber.



**Minneapolis Electric
and Construction Co.**

80 S. 12th St.
Minneapolis Minn.

New Conduit Type Cable Support



A Simple Two Piece Cable Support for Vertical Runs.

Can furnish these in split type if wanted.

A Compact End Fitting



One that has a canvas bakelite insert made to take one to nine wires.

Bakelite Insulated Bushing



An insulated bushing made to prevent serious and disastrous grounds.

O. Z. CABLE SUPPORT CO., INC.
45 Bergen St. Brooklyn, N. Y.

Send us your latest bulletin with prices
Name
Address

plaints against armored cable, however, convinced the manufacturers that a higher standard of product was needed and desired by inspectors, contractors and the public using the product. Furthermore, some complaints were justified against sub-standard cable, which from time to time was manufactured and sold, even in the face of careful inspection and label service by Underwriters' Laboratories.

For the foregoing reasons, the armored cable industry, three years ago, asked the Underwriters' Laboratories, to conduct a thorough investigation of their products, and through research develop all causes for complaint by inspector and contractor. Following this complete investigation the Laboratories were to make recommendations to the manufacturing industry as how best to overcome the objections to this product.

Laboratories Report

This very careful and thorough research on the part of Underwriters' Laboratories was the subject of a comprehensive report made to the armored cable industry last fall. The industry accepted this report with its constructive recommendations, and during the next nine months undertook, through united, co-operative action to produce a product which would in every way meet all the objections raised previously by the inspectors and contractors. As this work progressed, the manufacturers decided they would do everything necessary to provide a new type of armored cable, which would embody in it all of the favorable experience of years gained by the electrical industry in producing and installing the older type of cable.

The manufacturers' answer today is an announcement that on October 1, 1929, a united armored cable industry will adopt a revised and improved standard for armored cable, and all will produce a new type of cable, known as the armored bushed cable or the A. B. C. type with bushing.

This new type of cable is of particular interest to all inspectors and contractors as it is intended to overcome all of the real

"DETROIT" RUBBER COVERED WIRES

(Reg. U. S. Pat. Office.)

**RUBBER INSULATED
WIRES AND CABLES**

LAMP CORDS

AUTOMOBILE WIRES

PARKWAY CABLES

**LEAD ENCASED
RUBBER INSULATED
WIRES AND CABLES**

**UNIDUCT ARMORED
WIRES**

**FLEXIBLE METALLIC
CONDUIT**

**Detroit Insulated Wire Company
Detroit, Mich.**

Division of General Cable Corporation



BERTHOLD SWITCH and PANEL BOARDS for LIGHT and POWER

Berthold "Selectrolite" System of Lighting
Control for theatres, auditoriums,
lodges, etc.

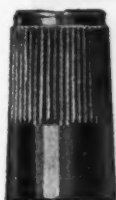
GUS BERTHOLD ELECTRIC CO.
155 W. MONROE ST. CHICAGO, ILL.

Steel
Cabinets



Stage
Equipment

Trade Mark

SRK**A1 WIRE****Connectors**

THE BETTER KIND
A perfect joint every time plus simplicity and dependability.

A joint which is safer, stronger and better mechanically and electrically. SRK's embody everything necessary to make such joints. There is nothing more to ask for—and the job is done in a Jiffy. 1 size for combinations of No. 14, No. 16 and No. 18, solid or stranded, up to 4 No. 14 and 3 No. 18, or equivalent.

MILLIONS IN USE

Approved by Underwriters Laboratories
and Factory Mutual Laboratories

Samples upon request

Patent No. 1635293; Others Pending

Manufactured by

JIFFY WIRE CONNECTOR CO.

Hackensack, New Jersey

General Sales Office
G. Denn. Montgomery, Jr.
522 Broadway, New York City
Phone Canal 7533

the
Spring's
the
thing!



Paine Spring Toggles work in any position in attaching your electrical fixtures to any hollow wall, ceiling or floor. Electrical contractors everywhere are using Paine Toggles because the exclusively patented spring feature makes installation so easy and speeds up the work—saving time and money. Order today from your jobber or write us direct giving us his name.

The Paine Company

2949 Carroll Ave., Chicago, Ill.
79 Barclay Street, New York City

**P A I N E
S P R I N G
T O G G L E S**

**WIRES MANY BIG BUILDINGS:—**

The Peterson Electric Co., Rockford, Ill., specializes in large downtown jobs. This is an informal view of Howard Peterson beside his work. He has to his credit the thirteen story Talcott Building which is the largest building in Rockford. At present he is working on the big J. C. Penney store on State St.

objectionable features of the older type of braided cable.

The new cable is simpler in its construction, and provides as safe a type of wiring as we have today. This type of wiring, with the steel armor, embodies the greatest mechanical protection to the insulated conductors of any type of wiring next to rigid conduit, while at the same time giving the maximum in flexibility as a wiring system. When to its low first cost as a wiring material there is added the lowest installation labor cost of any type of wiring approved in the N. E. Code, the armored cable industry have provided the public with a sure means of obtaining the greatest adequacy in wiring installations at the lowest possible cost.

* * *

O. W. Carl

O. W. Carl, secretary of the San Diego (Calif.) Electrical Contractor-Dealer Association, died suddenly Aug. 2. Mr. Carl, an Electragist, had taken an active part in the affairs of the electrical organizations of San Diego and had been appointed by the City of San Diego to act on a board of freeholders in the preparation of a new city charter.



SHERMAN
solderless
connectors

ONLY ONE
SIZE NEEDED
—FIT ALL
WIRES—NO.
12 OR
SMALLER



Best
for
**NEON
SIGNS!**

and for miscellaneous manufacturers of electrical equipment.



Soldered connections are out of date. SHERMAN has shown a better way. Electrical contractors everywhere have found the Sherman Fixture Connector most efficient for making small electrical connections. The screws can't come out! They're all brass—can't rust, assuring high conductivity. Swift and easy to install—No more acid, solder and blow torch. Packed in attractive counter display cartons and big retail sellers to radio fans. A profitable item for jobber salesmen.

**H. B. SHERMAN
MFG. CO.**

Battle Creek, Mich.

Sold Thru Jobbers



Sterling
"Enduring Lustre"
REFLECTORS

LIGHT'S GOLDEN JUBILEE

A glowing tribute to a great man and a great industry in which **Sterling Reflectors** and **Sterling Lighting Equipment** have been privileged to contribute successfully.



1879



1929

Reflector & Illuminating Co.
Manufacturers & Engineers
 1415 Jackson Blvd. Chicago, U. S. A.
 REPRESENTATIVES IN ALL PRINCIPAL CITIES

Suggested RESALE PRICES *for* Wiring Supplies

The prices listed on the following pages are merely suggested resale prices for the commonly used standard supplies and equipment employed in electrical construction work. They are based on average current trade costs throughout the country, very largely obtained from jobbers' price sheets, and are also based on average overhead charges.

* * *

Obviously, prices can be suggested only for the widely used products that are nationally distributed, and under no circumstances is this section intended to function as a directory of products or manufacturers.

* * *

The publishers wish to again emphasize that these are merely *suggested* resale prices and while every effort is made to make them universally applicable and accurate we cannot guarantee them or assume any responsibility for errors.

* * *

The prices appearing in this section will be completely revised each month as trade prices may change.

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Suggested Resale Prices for Wiring Supplies

These are merely suggested resale prices for the commonly used products that appear regularly on jobber price lists. They are figured on generally accepted principles for computing resale prices and should cover average conditions but are not guaranteed. (See note on title page.)

A-SUNDRIES

ASBESTOS

Asbestos Millboard—Per Pound—25c.

ANNUNCIATORS

House Type

		House Type			P & W	P & W
		Edwards	Edwards	Ansonia	"Competition"	"Automatic"
No.	Drops	81 Die	No. 91 White Enam.	301 to 300	"Guarantee"	"Guarantee"
2	Drop	\$10.00	\$13.00			
3	"	11.75	13.00	\$10.00		
4	"	13.25	16.75	11.00	\$13.40	\$16.60
6	"	16.75	19.75	15.00	16.75	20.00
8	"	19.75	23.10	17.00	20.00	25.20
10	"	23.00	26.50	19.50	23.40	30.00
12	"	26.50	29.75	22.70	28.25	
14	"			25.25		
16	"			28.00	34.75	
Ex. Drops ea.		2.25	3.00			

(All other Announcers—Sell at List less 10%)

COUCH

Number of Drops	Style D Flush Type Wood Face		Style F Flush Wood Face		Style F Flush Metal Face	
	Number	Price	Number	Price	Number	Price
4	DA 4	\$21.50	FA 4	\$44.80	FA 4	\$49.80
6	DA 6	26.50	FA 6	43.80	FA 6	55.00
8	DA 8	31.50	FA 8	53.80	FA 8	59.70
10	DA 10	36.50	FA 10	58.25	FA 10	64.70
12	DA 12	43.10	FA 12	64.25	FA 12	71.30
15	DA	.....	FA 15	73.10	FA 15	81.50
16	DA 16	56.50	.....	.....	.....	.....
20	DA 20	69.75	FA 20	88.15	FA 20	98.00

Add for each drop on any of above—\$4.15 per drop

ADAPTORS—REDUCERS

		Bryant Benjamin	G. E.	Hubbell	Weber	Price
Medium to	Candelabra . . .	392	35699		392	\$.25
	Miniature . . .	391				.20
	Mogul . . .	421	98		292	.50
	Parallel Blades	1006	682			.50
	Intermediate	9691	2644	492		.25
T Slot	Tandem Blades	K.L.	1684	6771		.50
	Parallel Blades			6772		.50

SOCKET EXTENSIONS

Benjamin No. 91 Socket Extension—Ea.....	\$.40
No. 119 Socket Extension for New Type A Mazda Lamps—Ea.....	.15

ATTACHMENTS FOR PULL SOCKETS

For 8" to 14" Reflectors No. 5828-5829-5957-5958.....	\$.55
For 16" to 20" Reflectors No. 5953-5954-5959-5960.....	.60

ADJUSTERS For Cords

	Price
Universal Cord Adjuster Standard No. 1417 3/4" Long.....	\$.10
" " " Factory No. 1418 5/8" Long.....	.20
" " " Reinforced No. 1419 5/8" Long.....	.22
Ball Type No. 1403 & 5 for Type C Cord.....	.08
" No. 4034 & 5 for Reinforced Cord.....	.10

ACORNS

Hubbell	No. 5919 Acorn	Adjustable for Linen Cord	\$.10
"	No. 6982	Standard for Pull Sockets	.10
"	No. 7004	Candelabra Detachable	.10
"	No. 7015 or Bryant 750	Luminous Acorn	.30
"	No. 3946	Tassel Acorn	.10

BOXES, SWITCH

STANDARD SWITCH BOXES

Description	Depth	Gem Nos. or Similar	Price Each	Black	Galv'd
For Loom Without Clamps.....	2 & 2 1/2"	A-C-D-E & S	\$.20	\$.22	
" " " " " "	2 1/2"	F	.15	.17	
" " " With 2 Loom Clamps..	2 1/2"	FC	.18	.20	
For Metallic Cable with Clamps..	2 & 2 1/2"	X & XS	.20	.23	
" " " " " "	"	Y	.34	.37	
For Rigid Conduit with Clamps	2-2 1/2-2 3/4"	B-BM & BS	.20	.22	
" " " " " "	1 1/2"	R	.22	.25	
" " " " " "	3 1/2"	BD	.34	.37	
Spacers—For Spacer for any box deduct from box price			.04	.05	

BRACKET SWITCH BOXES

Gem or Similar		Gem Nos. or Similar	Price Each
For Loom, Lath Supports-No Clips	2 1/4"	Black	.25
For Loom, Lath Supports-with Clips	2 1/4"	Galv'd	.30
For Metallic Cable, Lath Supports with Clamps	2 & 2 1/2	Black	.25
For Rigid Conduit, Lath Supports No Clamps	2 & 2 1/2	Galv'd	.33
		XB & XSB	.34
		BB & BSB	.39

LOCKTITE SWITCH BOXES

Gem or Similar					
For Loom with Mtg. Ears without Clamps.....	2 3/4"	FT	\$.24	\$.29	
For Loom with Mtg. Ears & Clips.....	2 3/4"	FCT		.32	
For Metallic Cable, Mtg. Ears & Clamps.....	2 & 2 1/2	XT-XCT-XST	.33	.38	
For Rigid Conduit, Mtg. Ears without Clamps.....	2 & 2 1/2	BT-BST	.29	.34	

SECTIONAL SWITCH BOXES

Union or Similar	Boxes		Spacers	
	Black Galvd.		Black Galvd.	
For Loom or Rigid Conduit 1½" Deep No. 170.....	\$.24	\$.27	\$.20	\$.23
For Rigid Conduit 2½" Deep—2 Gang No. 160.....	.87	.95	.37	.40

SOLID DRAWN SWITCH BOXES

SOLID DRAWN SWITCH BOXES			
Union or Similar			
	Single	2 Gang	3 Gang
Solid Drawn for Loom 2 1/2" Deep Type SS Black.....	\$.16	\$.31	\$.46
" " " Rigid Conduit No. 180-181-187-Galv.....	.26	...	...
" " " with Lath Support. 181-BB-GALV.....	.26	...	...

TANDEM SWITCH BOXES

		Black			Galvanized		
Loom, Cable, Conduit		2 Gang	3 Gang	4 Gang	2 Gang	3 Gang	4 Gang
Tandem Boxes 1½ & 2" Deep		\$.68	\$ 1.10	\$ 1.63	\$.82	\$ 1.24	\$ 1.90
" " 2½ & 2¾" Deep		.81	1.23	1.90	.95	1.37	2.18

DOOR SWITCH BOXES

Union No. DS-1-3 & 5	Appleton 7010-12-14 without Clamps	Black	Galvd.
" No. DS-2-4 & 6	" 7011-13-15 with Clamps...	\$.52	\$.62
		.62	.72

LAUNDRY BOX

Gem or Appleton—with Receptacle.....	Single \$1.00	Double \$1.40
--------------------------------------	-------------------------	-------------------------

SWITCH BOX SUPPORTS

Any Make.....	Each \$.20
For Concrete Boxes See Page PL-5.	
For Solid Gang Boxes See Page PL-5.	

BOXES & COVERS, OUTLET

BOXES, OCTAGON & SQUARE

Univ. No.	Size	Depth	Knockouts		Price Each	
			Bottom	Side	Black	Galvd.
24151	3 1/4" Oct. Deep	1 1/2"	1-1 1/2"	4-1 1/2"	\$.14	\$.16
24151	3 1/4" " "	1 1/2"	1-1 1/2"	4-1 1/2"	.16	.18
24155	3 1/4" " "	1 1/2"	7-1 1/2"	8-1 1/2"	.16	.18
26121	3 1/4" Round Shallow	1 1/2"	2-1 1/2"		.15	.17
26125	3 1/4" " "	1 1/2"	0-1 1/2"		.14	.16
26126	3 1/4" " " No Ears	1 1/2"	0-1 1/2"		.13	.15
36113	3 1/2" " "	1 1/2"	9-1 1/2"		.14	.16
36114	3 1/2" " "	1 1/2"	9-1 1/2"		.12	.14
36115	3 1/2" " "	1 1/2"	7-1 1/2"		.14	.16
36116	3 1/2" " "	1 1/2"	8-1 1/2"		.12	.14
51151	4" Sq. Deep	1 1/2"	5-1 1/2"	8-1 1/2"	.22	.25
52151	4" " "	1 1/2"	5-1 1/2"	10-1 1/2"	.20	.24
52151	4" Oct. " "	1 1/2"	5-1 1/2"	10-1 1/2"	.22	.26
54151	4" " " 1/4" KO	1 1/2"	5-1 1/2"	4-1 1/2"	.17	.20
54151	4" " " 3/4" KO	1 1/2"	5-1 1/2"	4-1 1/2"	.20	.23
54155	4" " " "	1 1/2"	0-1 1/2"	8-1 1/2"	.25	.28
54171	4" " " "	2 1/2"	5-1 1/2"	4-1 1/2"	.30	.35
56111	4" Round Shallow 1/4" KO	1 1/2"	5-1 1/2"		.13	.15
56111	4" " " 3/4" KO	1 1/2"	4-1 1/2"		.16	.20
56112	4" " " "	1 1/2"	4-1 1/2"		.10	.12
56115	4" " " "	1 1/2"	9-1 1/2"		.14	.16
56116	4" " " "	1 1/2"	9-1 1/2"		.11	.13
56121	4" " " "	1 1/2"	5-1 1/2"		.17	.20
56122	4" " " "	1 1/2"	5-1 1/2"		.13	.16
56125	4" " " "	1 1/2"	0-1 1/2"		.32	.37
72151	4-11/16" Sq. Deep	1 1/2"	5-1 1/2"	8-1 1/2"	....	.55
72171	4-11/16" " "	1 1/2"	5-1 1/2"	8-1 1/2"	....	.65

COVERS, ROUND
For 3 1/4" & 4" Octagon & Round Boxes

Universal No.	Size	Description	Price Each	Black	Galvd.
24C-1	3 1/4"	Flat Closed Cover Blank 3 1/4"	\$.06	\$.08	
24C-2	"	Raised 3/4" Closed Cover Blank	.06	.08	
24C-3	"	Flat with 1/2" KO	.07	.09	
24C-7	"	Raised 3/4" KO	.08	.10	
24C-12	"	Raised 3/4" Hole, for Cord or Bush	.08	.10	
24C-28	"	Spider Flat for Surf. Mntd. Devices	.10	.12	
24C-31	"	Raised 3/4" Opng. for Sign Recep.	.09	.11	
24C-31	"	Flat Opng. 3/4" for Spec. Sign Recep.	.23	.25	
24C-35 & 36	"	Raised Opng. 3/4" for Scrw Sign Recep.	.08	.10	
54C-1	4"	Flat Closed Cover	.08	.10	
54C-2	"	Raised 3/4" Closed Center	.08	.11	
54C-3	"	Raised 3/4" Opening 2 1/4"	.11	.13	
54C-6	"	Flat with 1/2" KO	.08	.11	
54C-7	"	Raised 3/4" with 1/2" KO	.10	.12	
54C-12	"	Raised with Opening for Cord	.09	.11	
54C-28	"	Flat for Surface Mounted Devices	.10	.12	
54C-31	"	Raised for Sign Receptacles	.10	.12	
54C-35 & 36	"	" " " " " "	.10	.12	
1172	3 1/4"	Porc. Round Cov. for 3 1/4" Box with hole	\$.20		
1173	4"	Porc. Round Cov. for 4" Box with hole	\$.30		

COVERS, SQUARE
For 4" & 4-11/16" Square Boxes

Universal No.	Size	Description	Price Each	Black	Galvd.
52C-1	4" Sq.	Flat Closed	\$.09	\$.12	
52C-2	"	Raised Closed Center	.12	.14	
52C-3	"	Flat with 2 1/4" Opening	.15	.18	
52C-6	"	Flat with 1/2" KO	.12	.14	
52C-7	"	" " " " " "	.17	.20	
52C-12	"	" " " " " "	.14	.16	
52C-13	"	Raised 1/4" For Single Flush Devices	.12	.14	
52C-14	"	" " " " " "	.13	.16	
52C-15	"	" " " " " "	.18	.20	
52C-16	"	" " " " " "	.22	.24	
52C-17 & 18	4"	Raised 3/4" For Two Flush	.18	.21	
52C-19	"	Raised 1" For Two Flush	.26	.28	
52C-21	"	Raised 1 1/4" For Two Flush	.28	.30	
52C-28	"	Flat For Surface Mounted	.18	.20	
52C-35 & 36	4" Sq.	Raised for Sign Receptacles	.17	.20	
52C-48	"	Raised with 2 1/4" Opening	.13	.15	
52C-62	"	Raised 1/4" For Single Flush Devices	.12	.14	
72C-1	4-11/16" Sq.	Flat Closed	.30	.36	
72C-2	"	Raised Closed Center	.36	.40	
72C-3	"	Raised 2 1/4" Opening	.40	.43	
72C-12	"	Raised with Hole for Cord	.40	.43	
72C-14	"	Raised 3/4" For Single Flush Devices	.43	.46	
72C-18	"	Raised 3/4" For Two Flush	.55	.58	
72C-48	"	Raised 2 1/4" Opening	.40	.43	

For Exposed Work

Universal No.	Description	Price	Black	Galvd.
N-8490 to 8493	4" Cover For One Push or Toggle Switch or one Single or Duplex Receptacle	\$.25	\$.30	
N-8493A to 8500	4" Cover For Two Push or Toggle Switches or Two Receptacles or any combination of two devices	\$.35	\$.40	

EXTENSION RINGS
For Flush Devices

Universal No.	Description	Price Each	Black	Galvd.
25151-57151	3 1/4" Octagon Ring—1 1/4" Deep	\$.27	\$.29	
53151-55151	4" Square or Octagon Ring—1 1/4" Deep	.30	.32	
55171	4" Octagon Ring—2 1/4" Deep	.48	.54	

HANDY OR UTILITY BOXES & COVERS

Univ. No.	Appleton No.	G. E. No.	Description	Black or Galvd.	Price
58361	4-CS	58361	Box 4 x 2 1/2 x 1 1/2 Approx. Size		\$.25
58361	3-OS	3400	" 3 1/2 x 2 1/4 x 1 1/2 " "		.30
58151	4-SS	"	" 4 x 1 1/2 x 1 1/2 " "		.30
58371	4-SSL	"	" 4 x 2 1/2 x 2 1/2 " "		.30
58371	4-SSLD	"	" 4 x 2 1/2 x 2 1/2 " "		.55
58C1	2540	34R1	Cover Flat Steel Closed		.13
58C11	2541 to 4	"	" " Porcelain 1-2-3-4 Hole		.18
58C11	2550 to 53	"	" " Steel with 3/4 or 1/2 Nip.		.30
58C28	2556	"	" " For Snap Switches		.20
58C36	2557-8	"	" " Sign Receptacles		.20
58R3	2537	34R3	Cover For Push Button Switches		.25
58R5	2539	34R5	" " Single Receptacles		.25
58R7	2510	34R7	" " Duplex Receptacles		.25
58R7	2594	34R14-15	" " Toggle or Tumbler Switch		.25

CONCRETE BOXES WITH COVERS
Galvd. Only

Depth	1 1/4"	2"	2 1/4"	3"	3 1/2"	4"	5"	6"
Complete with Plate & Stud	\$.35	\$.40	\$.40	\$.45	\$.50	\$.55	\$.60	\$.70
less " " "	.30	.35	.35	.40	.45	.50	.55	.65

SOLID GANG BOXES & COVERS

Galvd. Only	2	3	4	5	6	7	8
Gang	\$.80	\$1.20	\$1.65	\$2.10	\$2.60	\$3.35	\$6.50
Box Price...	\$.40	.60	.80	1.00	2.00	3.35	3.70
Cover " "							

BOXES, OUTLET

ARMORED CABLE BOXES

Size	Stud	Clamps	Bush	Union	Nat.	Met.	Steel	Price
Comparative Numbers								
3 1/4 x 1 1/2 Round	Yes	Two	No	Chicago	Appleton	Prod.	City	
3 1/4 x 1 1/2 Oct.	"	"	Two	1288XS	544L	2365	36151XS	\$.30
3 1/2 x 1 1/2 Round	No	"	No	1286	"	"	24151XS	.35
3 1/2 x 1 1/2 Oct.	Yes	"	Two	1287XS	532L	"	36125XS	.20
4 x 1 1/2 Oct.	"	"	"	1291XS	530L	"	54151XS	.30
4 x 1 1/2 " "	No	"	"	1291X	542L	2348	54151X	.40
Hope								
Boxes No. 2-4-12-14	Straight Electric or Combination Each							\$.20
G. E.	5200 & 5201 " " " " " "							.20
Thomas & Betts	No. 565-66-67-68 Standard Cable Box							.20
No. 553-54-55-56-57	Dead Ground Type							.30

BAR HANGERS FOR OUTLET BOXES

Without Boxes

(With 3/8 Fixt. Stud)	Appleton	Austin	G. E.	Hemco	Steel	Union	Price
					City	Chgo.	
Straight 18" Bar	SBH	900	6600	20	6000	10	\$.25
Straight 24" Bar	SBHL	900A	6601	24	6000	10A	.35
Shallow 19 1/2" Offset Bar	BHSL	905	6602	21	6001	11	.30
Shallow 24" Offset Bar	BHSL	"	"	"	"	"	.35
Deep 19 1/2" Offset Bar	BHDL	915	6603	22	6002	12	.30
Deep 24" Offset Bar	BHDL	"	"	"	"	"	.35
Straight Old Workbar	BHOW	920	6604	23	6003	13	.20
Universal Box Cleat	CBH	910	6605	24	6005	14	.15
Straight Saddle Bar 18"	XBH	"	"	"	"	"	.20

BAR SETS

Complete with Boxes

For	Size	Ears	Clamps	Bush Plates	Appleton	Steel City	Price Galvd.
Loom	3½x1½ Round	None	None	None	498L	36116B	\$.35
"	" " " "	"	"	"	498LC	36116BC	.40
"	" " " "	Yes	None	"	521L	36115B	.40
"	" " " "	"	Two	"	521LC	36115BC	.45
Cable	3½x1½ "	None	"	"	532L	"	.35
"	3½x1½ "	"	"	Two	"	"	.40
"	3½x1½ Oct.	Yes	"	None	539L	"	.45
"	" " " "	"	"	Two	"	"	.50
"	4x1½ "	"	"	None	545L	"	.50
Conduit	4x1½ Round	None	None	None	BH4C	56112B	.55
"	" " " "	Yes	"	"	BH4CL	56111B	.40

For	Size	Ears	Clamps	Bush Plates	Union Chicago	Steel City	Price Galvd.
Loom	3½x1½ Round	None	None	None	260B	"	\$.35
"	" " " "	"	"	"	260CB	"	.40
"	" " " "	Yes	None	"	261B	"	.40
"	" " " "	"	Two	"	261CB	"	.45
Cable	3½x1½ "	None	"	"	1286B	"	.35
"	3½x1½ "	"	"	Two	1287XB	"	.40
"	3½x1½ Oct.	Yes	"	None	1289B	"	.45
"	" " " "	"	"	Two	1289XB	"	.50
"	4x1½ "	"	"	None	1290B	"	.50
"	" " " "	"	"	Two	1290XB	"	.55
Conduit	4x1½ Round	None	None	None	109B	"	.35
"	" " " "	Yes	"	"	109LB	"	.40

BUSHINGS & LOCKNUTS

BUSHINGS & LOCKNUTS

For Rigid Conduit

	1/2"	3/4"	1"	1 1/4"
Locknuts—Each	\$.01	\$.01 1/4	\$.02 1/4	\$.05 1/4
Bushings—Each	.02	.02 1/4	.06	.09
Locknuts—Each	1 1/4" \$.09	2" \$.11	2 1/2" \$.19	3" \$.32
Bushings—Each	.11	.20	.30	.40
				.88
				1.40

PORCELAIN CLAMP BUSHINGS

"Federal" or Equivalent

No.	K. O.	Inside Size	Outside Size	Wire Size	Bushing Each	Extra Ring Each
A-1	1 1/2"	1 1/2"	1 1/2"	No. 10	\$.08	\$.04
A-1 1/2	1 3/4"	1 3/4"	1 3/4"	No. 10	.10	.04
A-2	2"	2"	2"	No. 8	.10	.04
A-3	2 1/4"	2 1/4"	2 1/4"	No. 3	.12	.05
A-4	1 1/2"	1 1/2"	1 1/2"	No. 00	.16	.07
A-5	1 1/2"	1 1/2"	1 1/2"	450 CM	.23	.10
A-6	2"	2"	2"	1 Mill. CM	.46	.12
B-1	1 1/2"	1 1/2"	1 1/2"	No. 10	.21	.04
K-1	1 1/2"	1 1/2"	1 1/2"	No. 10	.32	.04
K-2	1 1/2"	1 1/2"	1 1/2"	No. 8	.37	.05

"MULTI" PORCELAIN CLAMP BUSHINGS

No.	Inside Size	Outside Size	For Wires	Price Each	Complete
10	1 1/2"	1 1/2"	14 B & S	\$.08	
12	1 3/4"	1 3/4"	14 B & S	.12	
15	2"	2"	14 B & S	.10	
20	2 1/2"	2 1/2"	6 B & S	.10	
30	3"	3"	2 B & S	.12	
40	3 1/2"	3 1/2"	000	.20	
50	4"	4"	350,000	.30	
55	4 1/2"	4 1/2"	600,000	.38	
60	5"	5"	1,000,000	.45	

PORCELAIN NO CLAMP BUSHINGS

Multi- With Spring Clip, Not Threaded

Catalog No.	Multi	90A	90B	91	92A	92B
Size of Hole	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
To Fit Hole	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Price	\$.06	\$.06	\$.06	\$.07	\$.07	\$.07

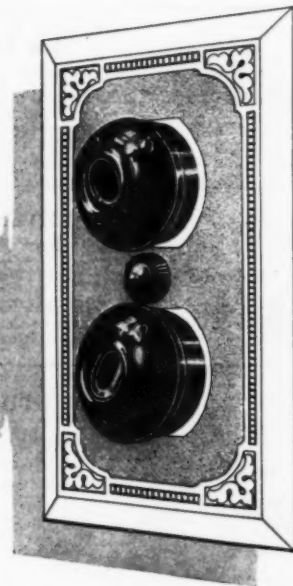
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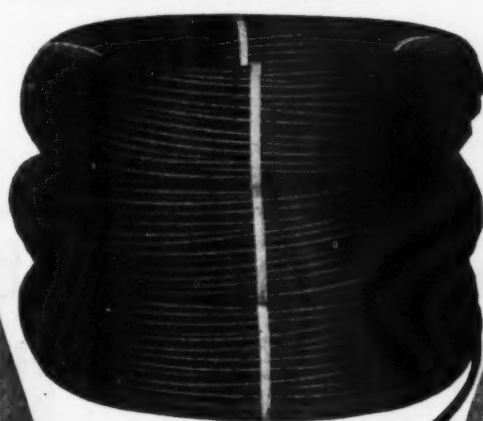


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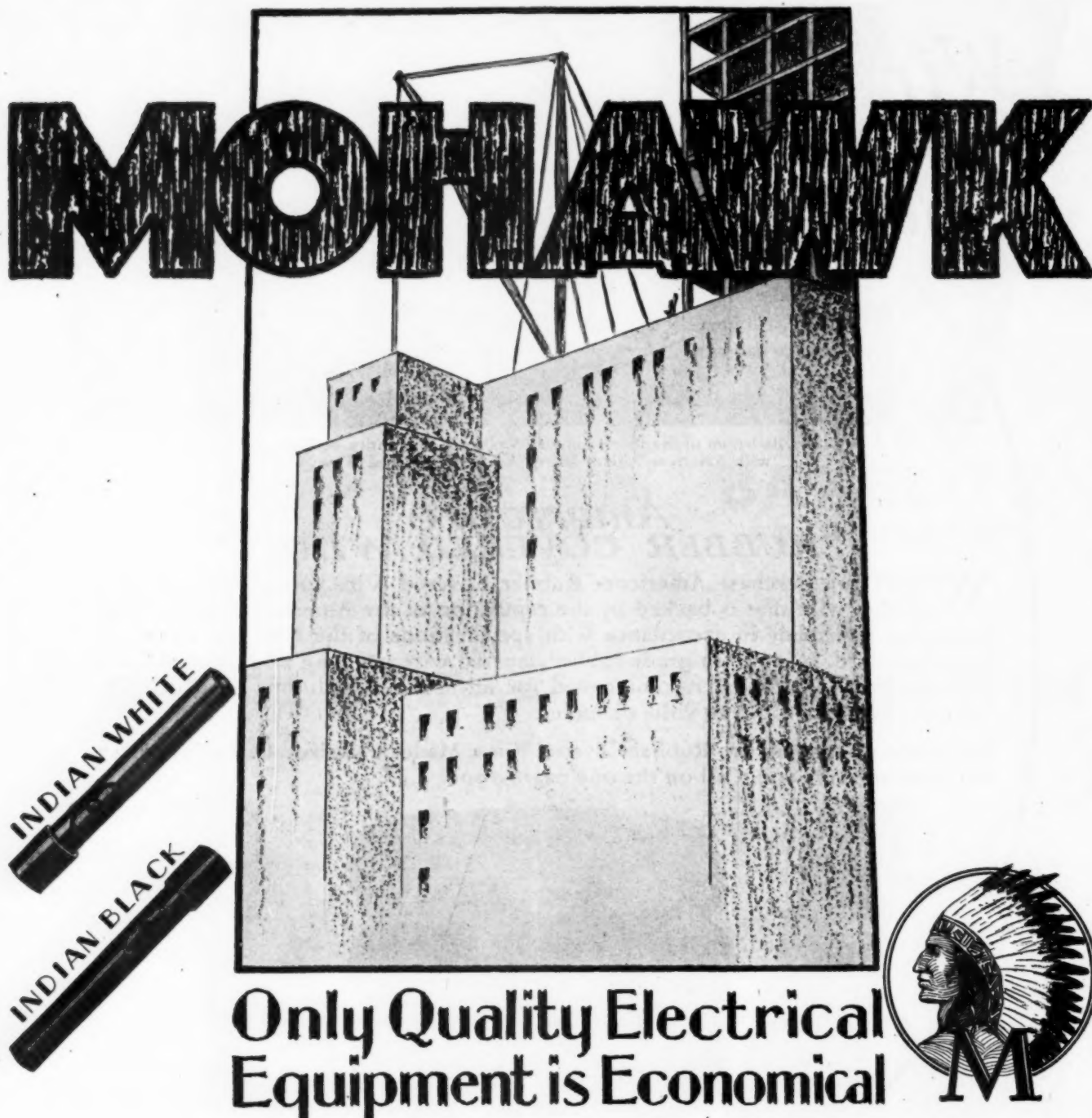
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The illustration features the word "MOHAWK" in large, bold, textured letters at the top. Below it is a detailed drawing of a multi-story industrial building with a crane on top. To the left of the building are two pipes: one labeled "INDIAN WHITE" and the other "INDIAN BLACK". To the right of the building is a circular logo featuring a Native American profile with a feathered headdress and a large letter "M" below it.

Only Quality Electrical Equipment is Economical

With the increasing demand for finer buildings and the corresponding requirement for the best electrical supplies, quality becomes the only source of economy.

Mohawk Rigid Conduit has the approval of contractors; it is made *heavy*; impervious to acids; durable as the building. — Tough enamel; smooth, glossy finish. Pipe bends so easily, you hardly realize it is steel. — And, clean even threads that make work a joy.

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	Size	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2"	2 $\frac{1}{2}$ "
Without Locknut.....		\$.05	\$.11	\$.14	\$.15	\$.20	\$.30	\$.45	\$.85
With Locknut.....		.09	.15	.18	.24	.30	.45	.77	1.15
Black Composition.....						$\frac{1}{4}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$\frac{1}{8}$ "
For Sockets.....						\$.01	\$.02	\$.03	\$.08

NON-ADJUSTABLE TYPE

Full- man" Steel City Co.	"Lat- robe" Fullman Mfg. Co.	Russell & Stoll	Description	Price
477	110	2580	Comp Out. with Std. Rec. & Bell Nozzle	\$3.90
490	100	2590	" " Less Std. Rec. with Stem Nozzle	3.50
490	100	2590	Comp. Out. Less Std. Rec. less Nozzle	2.45
491	....	....	Comp. Out. with 20A. Polarz. Rec. & Bell Noz.	4.90
499	300	....	Midjet Out. with 10A. Recept. No Nozzle	2.45
495	....	....	Square Out. Less Recept. with Bell Nozzle	4.35
496	....	....	Square Out. With 15 Amp. Rec. & Bell Nozzle	5.40
497	....	....	Sq. Out. With 25 A. Rec. & Large Bell Nozzle	8.60

400	120	2502	Complete-Shallow Box—Less Receptacle	\$4.35
400	Complete-Deep Box—Less Receptacle	5.25
401	130	Complete-Shallow Box With Receptacle	5.40
401	Complete-Deep Box With Receptacle	6.30
420	Complete Large Size Box Without Receptacle	4.90
421	Complete Large Size Box With Receptacle	6.00

441	251	2511	Single Gang with ½" Cover Plate.....	\$ 5.40
442	252	2512	Two " " " "	10.80
443	253	2513	Three " " " "	16.20
444	254	2514	Four " " " "	21.60
445	2515	Five " " " "	27.00
Extra For 2" Cover Plate, Per Gang.....				.65
Extra For Special Receptacle Latrobe No. T-208, Each Receptacle..				1.00

No. 100	Complete with Receptacle.....	\$4.00
No. 200	" with Receptacle.....	4.00
No. 1200	Complete without Receptacle.....	2.70
No. 1100	Complete with Receptacle.....	9.00
No. 8000	Utility Outfit with Receptacle.....	.85

Width Length.			Width Length		
Short Side	Long Side		Short Side	Long Side	
4 1/2	5	\$.55	12	18	\$ 2.40
4 1/2	9	12	24	4.40
4 1/2	6 3 1/2	12	30	11.40
6	6	.65	15	15	2.75
6	8	.80	15	18	3.00
6	9	.70	15	24	5.25
6	10	.75	15	30	12.25
6	12	.80	18	18	4.40
6	15	.95	18	21	9.90
8	8	.90	18	24	12.90
8	10	1.00	18	30	13.95
8	12	1.10	18	36	16.65
8	15	1.20	18	40	17.90
8	18	1.35	24	24	14.00
9	9	.95	24	30	17.55
9	12	1.05	24	36	20.50
10	10	1.10	24	40	22.30
10	12	1.35	24	44	37.90
10	15	1.50	30	30	24.95
10	18	1.60	30	36	38.10
12	12	2.10	30	42	44.80
12	15	2.20	30	48	51.95

For Galvanized Boxes Add 50% to above prices.

Ansonia

Name	No.	Description	Buzzer	2½" Bell	3" Bell	4" Bell	Cow or Steigh
.....	656	Sble. Coil Non Adjust.	\$.45	\$.50	.....	.....	.....
.....	657	Dble. Coil Non Adjust.	.50	.55	.....	.....	.....
.....	652	Dble. Coil Round Non Adjust.	.60	.65	.....	.....	.....
Wizard	659	Dble. Coil Non Adjust.	.90	.95	.....	.....	.....
Eureka	641	Dble. Coil Adjust. Class B.	1.00	1.05	\$1.25	\$1.60	\$1.90
Acme	631	Dble. Coil Adjust. Class A.	1.35	1.40	1.50	1.85	2.15
Eureka	621	Dble. Wood Box Bell	1.30	1.35	1.45	1.70	1.90
Monitor	658	Round Type	.....	1.55	.....	1.70	.....
Monitor	661	Round Type	.....	1.55	.....	.....	.....
Wizard	660	Comb. Bell & Buzzer	.....	1.25	1.35	.....	.....
Wizard	655	Buzzer Oak Mat	1.75	.....	.....	.....	.....
Wizard	666	Watch Case Buzzer	1.30	.....	.....	.....	.....
Ansonia	663	Comb. Bell & Buzzer	.....	1.00	1.10	.....	.....

Edwards

Name	No.	Size	Description	Price
Nubel	735	2 1/4"	Two Coil Non-Adjust.-Gray Enam. Bell	\$.65
"	736	2 1/4"	" " " " Buzzer	.60
Dixie	720	2 1/2"	" " Class C-Non-Adjust. Bell	.95
"	725	2 1/2"	" " " " Buzzer	.90
Combell	737	2 1/4"	Two Coil Non-Adjust.-Gray Enam. Bell & Buzz.	1.15
Tubell	738	"	Dble. Coil Non-Adjust.-Gray Enam. Two Bells	1.25
Cadet	710	2 1/4"	Two Coil-Class B-Adjust. Bell	1.05
"	715	"	" " " " Buzzer	1.00
"	712	3"	" " " " Bell	1.25
"	714	4"	" " " " Bell	1.60
"	x	"	" " " " Cow or Sleigh	1.20
Buz-A-Bell	730	2 1/4"	Two-Coil-Class C Comb. Bell & Buzzer	1.90
Monitor	156	3"	Monitor Bell-Nickel Plated Gong	1.55
Bronx	750	1 3/4"	Nickel Watch Case Buzzer	1.30

Edwards—Lungen

No. 13 Bells

Size	Price
1 st	\$2.00
1 st	1.80
2 nd	1.90
3 rd	2.00
4 th	2.20
6 th	6.50
Cow or Sleigh	3.25

No. 15 Buzzers

Size	No.	Price
1 1/4" x 1 1/4"	No. 0	\$1.85
2 1/4" x 1 1/4"	No. 1	1.50
2 1/4" x 1 3/4"	No. 2	1.70
3 1/4" x 2"	No. 3	2.00
3 1/4" x 2 1/4"	No. 4	2.20

Partrick & Wilkins

Iron Box Bells

[illegible]

Buzzers

Small Iron Box Buzzer Non-Adjust. Dble. Magnet	\$.75
Watch Case Buzzer Nickleled.....	1.10
Midget Buzzer Nickleled.....	1.85
Wood Box Buzzer.....	2.15
Flush Buzzer with Flush Plate.....	3.35

Wood Box Bells

Regular Type		Large Type	
2 1/4" Regular.....	\$ 2.20	6" Regular.....	\$ 6.55
3" ".....	2.30	8" ".....	8.00
4" ".....	2.60	10" ".....	13.10
Standard Cow or Dinner...	3.10	5" Dinner.....	11.25
3" Dinner.....	5.15	6" ".....	13.05
4" ".....	8.65	5" Cow.....	13.75
4" Cow.....	6.75	4" ".....	16.00
4" ".....	10.00		

P. R. Stanley & Patterson

Name	No.	Description	Buzzer	2 1/2" Bell	3" Bell
Competition	400-1	Dble. Coil Non-Adjust.	\$.60	\$.65	
Eclipse	200-1	" " " " " "	.90	.95	\$1.05
XXX	211-18	" " Adjust. B	1.00	1.05	1.25
Marlo	221-29	" " " A	1.65	1.70	1.85
Eclipse	208	Comb. Bell & Buzzer	1.25	1.25	.....
Competition	402	" " " " " "	1.25	1.15	.....
Midget	331-34	All Nickled Bell	1.50	1.85	.....
P. R.	240	Watch Case Buzzer	1.45	.....	.....
P. R.	238	Monitor	1.55	.....	.....
Name	No.	Description		4" Bell	Cow or Sleigh
Competition	400-1	Dble. Coil Non-Adjust.	.....	.....	.....
Eclipse	200-1	" " " " " "	.....	\$1.35	.....
XXX	211-18	" " Adjustable B	.....	1.60	\$1.90
Marlo	221-29	" " " A	.....	2.25	2.65
Eclipse	208	Comb. Bell & Buzzer	.....	.....	.....
Competition	402	" " " " " "	.....	.....	.....
Midget	331-34	All Nickled Bell	.....	.....	.....
P. R.	240	Watch Case Buzzer	.....	.....	.....
P. R.	238	Monitor	.....	.....	.....

Schwarze

	Buzzer	2 1/2"	3"	4"	Tea
Single Coil Bell No. 31 & 32....	\$.60	\$.85	\$.80	\$1.50	\$1.35
Two Coil Bell No. 311-321-331.	.55	.60	.75	.95	
Combination Bell & Buzzer No. 331.....		.95			
Flush Type Buzzer No. 315....	1.20				
Door Bell 26A or 26D.....			1.75		

SKELETON BELLS

Any Make

	2½"	3"	4"	5"	6"	8"	10"	12"
Class A....	\$5.75	\$6.10	\$7.25	\$9.40	\$10.60	\$16.00	\$25.00	\$31.00
" B....	5.35	5.60	6.65	7.85	8.95	14.45	21.40	27.60

BELL PUSH BUTTONS, TREADS, ETC.

PUSH BUTTONS, ETC.

Ansonia

Round Stamped		Price
E-33	1 1/2" Diameter.....	.75
506	1 1/2" Diameter Fixed Back.....	.30
507	With Card Holder.....	.60
513	1 1/2" Diam. Loose Back.....	.95
514	" " " ".....	.45
515	" " " ".....	.55
527	2 1/2" " Fixed Back.....	.40
579	1 1/2" " 562 Center.....	.75

Bell Push Buttons, Etc.

Brackets for Insulators

BELL PUSH BUTTONS, TREADS, ETC.—Continued

Round Cast	Price
508 & 510	\$1.00
511	.95
512	1.00
540	.60
550	.85
570	.75
Other Ansonia Push Buttons, Etc.	
D-33	Desk Push..... \$.75
F-33	Stamped Flush Push..... .75
G-33	Diamond Push..... .75
505	Wood Pear Push..... .60
521-524	Stamped Push..... .75
528 to 534	"..... .95
536-537	"..... 1.00
538	Oblong Push..... 1.25
541	Oblong for Card..... 1.75
543	" 2 Point..... 1.25
544	" For Card..... 1.20
545	2 Gang Oblong for Cards..... 1.85
545	3 " " "..... 2.55
545	4 " " "..... 3.75
546	Oblong 1 Gang..... 1.75
547	" 2..... 1.55
548	Sgle. Gang..... .75
549	"..... 1.25
562	Desk Push..... .60
577	Diamond Push..... .70
578	"..... .75
578	Wood Push Button..... .90
Table Clamp No. 571 without Cord, Floor Push or Plug.....	.20
Floor Push No. 560—Nickled.....	.75
Under Floor Plate No. 561 Nickled.....	.90
Combination Floor Pushes Complete No. 573.....	2.60
No. 575.....	2.75
Daisy Floor Tread Complete.....	1.55

Edwards

No.	Round & Oval Buttons	Price
No. 600	2 1/2" Diam. Round.....	\$.25
No. 601	2 1/2" Diam. for Card Round.....	.40
No. 603	1 1/2" Diam. Round.....	.25
No. 606	Oval.....	.30
No. 609	Oval 2 x 1 1/2".....	.45
Oblong Push Buttons		
No. 602	2 Gang for Cards.....	\$1.05
No. 604	Oblong.....	.40
No. 605	Oblong.....	.40
No. 607	Single for Cards.....	.40
No. 608	".....	.45

DESK BUTTONS

Edwards

No.	Hole.....	Price	No.	Hole.....	Price
No. 59	1/4" Hole.....	\$.80	No. 621	1/4" Hole.....	\$1.45
No. 63	1/2" ".....	.75	No. 622	1/2" ".....	1.50
No. 620	3/8" ".....	.45	No. 625	3/8" ".....	.60

OTHER BUTTONS

Edwards

No.	Price
No. 235	Floor Plug with Remov. Plug & Extension..... \$.85
No. 209	Dixie Floor Tread..... 1.60
No. 206	Table Clamp..... 1.10
No. 67	Pendant Push Oak or Mahogany \$.65—White..... .75
No. 68	Metal Pearl Push..... .80

DOOR & WINDOW SPRINGS

Edwards

Number.....	28	30	30C	32	34	38	39	236
Price.....	\$.60	\$.90	\$1.10	\$1.60	\$.45	\$.60	\$.50	\$1.10

(For Door Openers, See Page PL-20.)

ROUND PUSH BUTTONS

Patrick & Wilkins

No.	Price
Stained Wood Push No. 2.....	\$0.15
Oak Wood Regular No. 1.....	.40
Oak Open, Closed & Double Cont. No. 1.....	.70
Oak Triple Contact No. 1.....	.90
Cast Brass 1 1/2" Diam. No. 8.....	.75
Cast Brass 2 1/2" Diam. No. 9.....	.80
Stamped 1 1/2" Diam. No. 20.....	.25
Stamped 2 1/2" Diam. No. 27.....	.25
Stamped Sgle. Card Holder No. 25.....	.40

DESK TYPE

Patrick & Wilkins

No.	Price
Midget 1/4" Hole. Pearl Center.....	\$0.85
Desk 1/4" Hole.....	.40
Mite 1/2" Hole.....	.70
Multiple 1/4" Hole. Black Center.....	1.35
Pony Return 1/4" Hole. Black Center.....	1.85

OBLONG PUSHES

Patrick & Wilkins

No.	Price
16 Cast Brass 4 1/2" x 1 1/2" Screw Cap.....	\$1.65
31 " " 5 " x 2 1/2" " ".....	2.35
44 " " 4 " x 2 " " ".....	1.45
50 Wrought 4 1/2" x 1 1/2" One Piece.....	.30
55 " " 4 " x 2 " " ".....	.85
708 Wrought Push & Speak One Piece.....	1.35
907 2 Button & Card Holder.....	2.15
908 3 " " ".....	2.95
909 4 " " ".....	4.55

PEAR SHAPED PUSHES

Patrick & Wilkins

No.	Price
Compound Maple 2 Button.....	\$2.00
" 3.....	3.00
No. 3 Solid Maple One Piece.....	.85
No. 4 Fancy Pear, Two.....	.25
Wood Rosettes for above.....	.40

TABLE AND FLOOR PUSHES AND CLAMPS

Patrick & Wilkins

Improved Table Clamp N. P. Finish.....	\$0.90
Floor Tread Flat Top.....	1.10
Combination Foot Push.....	.80

DOOR & WINDOW SPRINGS

Patrick & Wilkins

No. 1 Door Spring.....	\$.35	Single Window Spring....	\$.75
Make & Break Type.....	.40	Double ".....	.70
Door Trip.....	.75	Transom Spring.....	1.60
Closed Circuit Door Spring.....	.40	Clad. Circuit Window Spr.....	.95

COMPOUND OR MULTIPLE PUSHES

Patrick & Wilkins

Style	1 Butt.	2 Butt.	3 Butt.	4 Butt.
No. 3 Wood For Wall Use. Single Row Without Card Holders.....	\$1.50	\$ 1.80	\$ 2.35	\$ 3.00
No. 4 Wood Same As Above But Weighted For Desk Use.....	2.60	2.95	3.50	4.25
No. 5 Wood Angle Type Weighted For Desk Use.....	12.80
No. 10 Wood Base For Wall With Card Holders.....	3.35	3.75	4.00
No. 12 Wood Base Same As Above But Weighted For Desk Use.....	3.75	4.25	5.45
5 Butt.....	6	8	10
6 Butt.....	7	9	11
7 Butt.....	8	10	12
8 Butt.....	9	11	13
9 Butt.....	10	12	14
10 Butt.....	11	13	15
11 Butt.....	12	14	16
12 Butt.....	13	15	17
13 Butt.....	14	16	18
14 Butt.....	15	17	19
15 Butt.....	16	18	20
16 Butt.....	17	19	21
17 Butt.....	18	20	22
18 Butt.....	19	21	23
19 Butt.....	20	22	24
20 Butt.....	21	23	25
21 Butt.....	22	24	26
22 Butt.....	23	25	27
23 Butt.....	24	26	28
24 Butt.....	25	27	29
25 Butt.....	26	28	30
26 Butt.....	27	29	31
27 Butt.....	28	30	32
28 Butt.....	29	31	33
29 Butt.....	30	32	34
30 Butt.....	31	33	35
31 Butt.....	32	34	36
32 Butt.....	33	35	37
33 Butt.....	34	36	38
34 Butt.....	35	37	39
35 Butt.....	36	38	40
36 Butt.....	37	39	41
37 Butt.....	38	40	42
38 Butt.....	39	41	43
39 Butt.....	40	42	44
40 Butt.....	41	43	45
41 Butt.....	42	44	46
42 Butt.....	43	45	47
43 Butt.....	44	46	48
44 Butt.....	45	47	49
45 Butt.....	46	48	50
46 Butt.....	47	49	51
47 Butt.....	48	50	52
48 Butt.....	49	51	53
49 Butt.....	50	52	54
50 Butt.....	51	53	55
51 Butt.....	52	54	56
52 Butt.....	53	55	57
53 Butt.....	54	56	58
54 Butt.....	55	57	59
55 Butt.....	56	58	60
56 Butt.....	57	59	61
57 Butt.....	58	60	62
58 Butt.....	59	61	63
59 Butt.....	60	62	64
60 Butt.....	61	63	65
61 Butt.....	62	64	66
62 Butt.....	63	65	67
63 Butt.....	64	66	68
64 Butt.....	65	67	69
65 Butt.....	66	68	70
66 Butt.....	67	69	71
67 Butt.....	68	70	72
68 Butt.....	69	71	73
69 Butt.....	70	72	74
70 Butt.....	71	73	75
71 Butt.....	72	74	76
72 Butt.....	73	75	77
73 Butt.....	74	76	78
74 Butt.....	75	77	79
75 Butt.....	76	78	80
76 Butt.....	77	79	81
77 Butt.....	78	80	82
78 Butt.....	79	81	83
79 Butt.....	80	82	84
80 Butt.....	81	83	85
81 Butt.....	82	84	86
82 Butt.....	83	85	87
83 Butt.....	84	86	88
84 Butt.....	85	87	89
85 Butt.....	86	88	90
86 Butt.....	87	89	91
87 Butt.....	88	90	92
88 Butt.....	89	91	93
89 Butt.....	90	92	94
90 Butt.....	91	93	95
91 Butt.....	92	94	96
92 Butt.....	93	95	97
93 Butt.....	94	96	98
94 Butt.....	95	97	99
95 Butt.....	96	98	100

MULTIPLE PUSH BUTTONS

Couch "Pushrites"

With Card Holders

Number of Buttons	Plain Base	Wood Base	Weighted Base	Flush Brass	Plate Type	Price
4	7900	\$ 3.35	7980	\$ 3.75	7940	\$ 5.00
6	7940	4.60	7989	5.20	.....	.....
8	7910	5.80	7990	6.65	7950	9.15
12	7921	8.30	79010	9.60	7960	13.30
16	7930	10.80	79020	12.45	7970	17.50
20	793	13.30	7902	15.40	797	21.60

COUCH UNMOUNTED PUSH BUTTONS "WORKRITES"

No. 97 for 1/2" Hole.....	\$0.50
Adaptor No. 0684 for same.....	.05

BRACKETS FOR INSULATORS

WOOD BRACKETS

Each	Price	Each	Price
1 1/2" x 2" x 10".....	\$.10	1 1/2" x 2" x 12".....	.11
1 1/2" x 2" x 12".....	.10	2" x 2 1/2" x 12".....	.12
1 1/2" x 2 1/2" x 12".....	.10	2" x 2 1/2" x 12".....	.12

PINS

Each	Price	Each	Price
Locust 1 1/2" x 8".....	\$.10	Locust 1 1/2" x 9".....	\$.12
Oak 1 1/2" x 8".....	.05	Oak 1 1/2" x 9".....	.08

HOUSE BRACKETS WITHOUT INSULATORS

Peirce

No.	Light Type	Price	No.	Heavy Type	Price	No.	Corner Type	Price
153	One	\$.25	154	One	\$.45	150	One	\$.30
258	Two	.60	254	Two	.90	242	Two	.80
353	Three	.95	354	Three	1.15	342	Three	.90

WIREHOLDERS WITH INSULATORS

Peirce

No.	Wires	Spacing	Price
1607	One	0	\$.25
190	"	0	.30
191	"	0	.35
296	Two	6	.60
299	"	9	.65
394	Three	4 1/2	.85
396	"	6	.95

HOUSE RACKS WITH INSULATORS

Peirce

No.	Wires	Length	Space	Price
183	1	6 1/2	0	\$.45
286	2	12 1/2	6	.90
383	3	12 1/2	3	.95
386	3	18 1/2	6	1.25

SECONDARY RACKS WITH INSULATORS

Peirce

No.	Light Type	Wires	Space	Price	No.	Heavy Type	Wires	Space	Price
276	2	6"	8"	\$.90	278	2	8"	8"	\$1.30
376	3	6"	8"	1.30	378	3	8"	8"	2.05
1276	2	6"	8"	.85	1278	2	8"	8"	1.80
1376	3	6"	8"	1.20	1378	3	8"	8"	1.40
2768	2	8"	8"	.90	.....	.....	.....	.....	.....
3768	3	8"	8"	1.35	1378	3	8"	8"	2.05

INSULATORS ONLY FOR ABOVE BRACKETS

Peirce

355 Insulator.....	\$.20	1602 Insulator.....	\$.12
356 ".....	.25	1603 ".....	.10

HOUSE BRACKETS WITHOUT INSULATORS

National Elec. Products

Light Type			Heavy Type			Corner Type		
No.	Points	Price Each	No.	Points	Price Each	No.	Points	Price Each
108-10	1	\$.25	109-10	1	\$.40	111-10	1	\$.30
			123-6-7	1	\$.35			
108-26	2	.60	109-26	2	.80			
108-29	2	.65	109-29	2	.85	111-29	2	.60
108-36	3	.95	109-36	3	1.20	111-36	3	.85

HOUSE RACKS WITH INSULATORS

National Elec. Products

Light Type			Heavy Type		
No.	Points	Length	No.	Points	Length
104-10	1	5 3/4"	101-24	2	9 3/4"
104-26	2	11 3/4"	101-28	2	13 3/4"
104-33	3	11 3/4"	101-34	3	13 3/4"
104-36		18"	101-38		21 3/4"
			101-44	4	17 3/4"
104-53	5	18"	101-54	5	21 3/4"
104	Insulator Only		101	Insulator Only	
		.10			.20

WIREHOLDER ACCESSORIES

National Elec. Products

No. 5000 Corner Chair....	\$.13	No. 5040 Break Arm Strap....	\$.14
No. 5020 Insulator.....	.18	No. 5051 " " " Bolt....	.20
No. 5021 U Bolts & Nuts..	.10	No. 5052 T Head Screw.....	.03

SINGLE POINT WIREHOLDERS

National Elec. Products

No.	Price	No.	Price	No.	Price	No.	Price
5211.....	\$.25	5311.....	\$.20	5411.....	\$.35	5511.....	\$.24
5214.....	.35	5314.....	.30	5414.....	.40	5513.....	.30
5215.....	.45	5315.....	.35	5415.....	.50	5515.....	.35

WIREHOLDERS WITH INSULATORS

National Elec. Products

For One Wire		For Two Wires		For Three Wires	
No.	Each	No.	Each	No.	Each
No. 5011.....	\$.30	No. 5002.....	\$.60	No. 5003.....	\$.90
No. 5001.....	.25	No. 5012.....	.60	No. 5023.....	.85

WIREHOLDERS WITH INSULATORS

National Elec. Products

Light Type			Heavy Type		
No.	Points	Length	No.	Points	Length
105-1X	1	6"	106-1	1	6"
105-1	1	6"	106-10	1	6"
105-10	1	4 1/4"	106-10	1	6"
105-26	2	10 1/4"	106-26	2	11 3/4"
105-29	2	13 1/4"	106-29	2	14 3/4"
105-34	3	13 1/4"	106-36	3	17 3/4"
105-36	3	16 1/4"	106-36X	3	17 3/4"
105	Insulator Only		106	Insulator Only	
		.18			.20

B-SUNDRIES, BOLTS, ETC.

CARRIAGE BOLTS

Galvanized

	3"	3 1/2"	4"	4 1/2"	5"	5 1/2"	6"
1/2" Diam. Each..	\$.05	\$.05	\$.05	\$.06	\$.07	\$.07	\$.08
3/4" " " " "	.08	.09	.09	.10	.10	.11	.12

MACHINE BOLTS WITHOUT WASHERS

Galvanized

	3"	4"	5"	6"	7"	8"	10"	12"	14"	16"	18"
1/2" Each.....	\$.05	\$.06	\$.07	\$.08	\$.08	\$.09	\$.10	\$.12	\$.12	\$.14	\$.15
3/4" " " " "	.08	.09	.10	.11	.12	.13	.15	.18	.18	.20	.21
5/8" " " " "	.12	.13	.14	.15	.16	.17	.19	.22	.24	.26	.28
3/4" " " " "	.15	.16	.17	.19	.20	.22	.25	.28	.30	.33	.36

STOVE BOLTS

Round or Flat Head

	Length	3/4"	1"	1 1/4"	1 1/2"
Up to 1"	Long Per Dozen.....	\$.10	\$.10	\$.12	\$.15
1 1/4" to 1 1/2"	" " " " " " " " " "	.10	.10	.12	.20
1 1/2" to 2"	" " " " " " " " " "	.10	.12	.15	.25
2" to 3"	" " " " " " " " " "	.20	.25	.30	.40
3 1/4" to 4"	" " " " " " " " " "	.25	.30	.35	.45

TOGGLE BOLTS, STEEL

"Paine"

	2"	3"	3 1/2"	4"	5"	6"
Size—Diameter	Long	Long	Long	Long	Long	Long
1/2" Long Price Each.....	\$.10	\$.10	\$.10	\$.10	\$.10	\$.10
3/4" " " " " " " " " " "	.10	.10	.10	.10	.11	.12
5/8" " " " " " " " " " "	.11	.11	.12	.12	.13	.13
3/4" " " " " " " " " " "	.13	.13	.14	.14	.14	.15

NOTE: For Brass Toggle Bolts—2 1/2 times above prices.

ROUND FIXTURE BLOCKS

Solid Half or Full Plowed

3" x 4" Round	4 x 5" Round	5 x 6" Round
\$.12	\$.13	\$.18
Ceiling Button—P & S Porcelain No. 170—Each.....		
Switch Bases—See Snap Switches Page PL-19.		

CORDS, FIXTURE, LAMP AND HEATER

SINGLE FIXTURE CORD

Single Lamp Cord		Type	Price Per Foot	No. 18	No. 16	No. 14	No. 12
Single Cotton Covered Cord—Light	F-64		\$.01	\$.02	\$.02 1/2	\$.04	
Single Cotton Covered Cord—Heavy	F-32		.01 1/2	.02	.03	.04	
Single Artificial Silk Cord—Heavy	F-32		.02	.03	.04		

DOUBLE LAMP CORD

Regular Lamp Cord		Type	Price Per Foot	No. 18	No. 16	No. 14	No. 12
Cotton Covered Twisted Pair.....	C		\$.02 1/2	\$.04	\$.05	\$.08	\$.10
" " Parallel Pair.....	PO		.03 1/2	.05	.08		
" " Twisted Parallel Pair.....	PD		.04	.05	.08		
Artificial Silk Twisted Pair.....	C		.03 1/2	.05	.08		
" " Parallel Pair.....	PO		.04	.06	.09		

REINFORCED CORD

Not Asbestos		Type	Price Per Foot	No. 18	No. 16	No. 14	No. 12
Cotton Covered Light Type 1/4"	PS		\$.04	\$.05	\$.05	\$.08	\$.13
" " Heavy " 1/2"	P		.05	.07	.09		
Weatherproof Light Type 1/4"	PSWP		.04	.06			
" " Heavy Type 1/2"	PWP		.05	.06	.09		

HEAVY DUTY PORTABLE CORD

"Duracord" or Similar. Extra Reinforced

Type PS Light 2 Cond. Port. Cord..		No. 18	No. 16	No. 14	No. 12	No. 10
" P Heavy 2 " " " " "		\$.10	\$.14	\$.17	\$.21	\$.25
" P Heavy 3 " " " " "		.14	.18	.25	.33	.41

ALL RUBBER CORD

"Tirex" "Royal" "Super" "Indestructo" or Similar

SJ Junior 2 Conductor Black.....		No. 18	No. 16	No. 14	No. 12	No. 10
" " 2 " Green.....		\$.09	\$.11	\$.13	\$.16	\$.19
" " 3 " Black.....		.10	.13	.16		
" " 3 " Black.....		.13	.16			
S Type Heavy 2 Conductor Black..		.13	.16	\$.23	\$.29	\$.37
" " 3 " " " " " "		.19	.22	.29	.34	.46
" " 4 " " " " " "		.20	.25	.35	.45	.59
" " " Sgle. Cond. Black..		.08	.09	.10	.11	.13

HEATER CORD

Asbestos Covered		No. 18	No. 17	No. 16	No. 14	No. 12
Stand. Twisted or Wound Asbest. 1/4"		\$.05	\$.08	\$.08	\$.10	\$.12
American Beauty Heater Cord.....			.09		.12	.21
Rockbestos Heater Cord.....		.07	.07 1/2	.08	.10	.20

"Deltabeston" Heater Cord		No. 18	No. 17	No. 16	No. 14	No. 12
Type A Asbestos Braid overall.....		\$.10		\$.11	\$.12	\$.18
" C Cotton Braid overall.....		.08	.09	.10	.11	.15
" D " " on ea. cond.....		.08	.09	.10	.11	.16
" E Cotton on ea. Cond. & over both.....		.09	.10	.11	.12	.17

NOTE—For Armored Cords See Page PL-6.
" Extension Cords See Page PL-10.
" Fixture Wire See Pages PL-26 & 27.
" Bell Wire See Page PL-27.

MISCELLANEOUS CORD

Description		Type	Price Per Foot	No. 18	No. 16	No. 14	No. 12	No. 10
x Brewery Cord.....	CB		\$.04	\$.05	\$.07			
x Canvasite Cord.....	CC		.06	.07	.09			
x Deck Cable.....	PWP		.07	.08	.11			
x Packinghouse Cable.....	PKWP		.07	.08	.10			
x Stage & Theatre Cable..	T		.07	.08	.10	\$.13	\$.16	

x Note—These prices are based on less than coil lot trade prices.

CONDUCTING BELL CORD

Spun Silk

Number of Conductors		2	3	4	5	8	10	14	18
Cond. Cond. Cond. Cond. Cond. Cond. Cond. Cond. Cond. Cond.		\$.08	\$.18	\$.20	\$.21	\$.28	\$.35	\$.55	\$.65
Price Per Foot.....									

Note—For Armored Lamp Cord See Page PL-9.

CONDUIT, ELBOWS, COUPLINGS, BUSHINGS, ETC.

RIGID CONDUIT

Size	Black Per Foot	Galvd. Per Foot	Cutting & Threading Per Thread	Cutting Only Per Cut
1/2"	.10	.11	.20	.10
3/4"	.13	.14	.20	.10
1"	.18	.20	.25	.10
1 1/4"	.24	.27	.30	.15
1 1/2"	.29	.32	.35	.15
2"	.39	.43	.40	.20
2 1/2"	.61	.67	.60	.25
3"	.79	.88	.60	.30
3 1/2"	1.00	1.10	.70	.30
4"	1.22	1.34	.80	.30

ELBOWS OR BENDS, COUPLINGS, OR UNIONS, BUSHINGS, LOCKNUTS, REDUCERS

Price Each

Size Each	Bends or Elbows	Couplings	Bushings	Locknut	Erickson Coupl. or Unions	Reducers
1/2"	Black Galv. \$.15	Black Galv. \$.17	Black Galv. \$.10	Galv. \$.11	Galv. \$.02	Galv. \$.01
3/4"	.19	.22	.14	.16	.02 1/2	.01 1/2
1"	.28	.32	.18	.19	.06	.02 1/2
1 1/4"	.39	.43	.24	.26	.09	.05 1/2
1 1/2"	.52	.58	.30	.32	.11	.09
2"	.83	.96	.40	.43	.20	.11
2 1/2"	1.40	1.60	.57	.63	.30	.19
3"	3.70	4.20	.80	.88	.40	.32
3 1/2"	8.25	9.25	1.08	1.20	.88	.40
4"	9.50	10.60	1.35	1.45	1.40	.58

Also on Page PL-10,

Also on Page PL-5

Also on Page PL-15

Also on Page PL-12

FLEXIBLE METALLIC CONDUIT "Greenfield", "Flexsteel", or Equivalent

Single Strip Per Foot	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Black	\$.08	\$.10	\$.12	\$.20	\$.36	\$.40	\$.57
Double Strip Per Foot	.10	.12	.14	.23	.40	.45	.80

For Fittings for Metallic Conduit See Page PL-14.

For Non-Metallic Conduit or Loom See Page PL-15.

For Steel Armored Cable & Lead Covered See Next Item.

CABLE, ARMORED & NON-METALLIC SHEATHED

ARMORED CABLE, "BX", "ABC", "FLEXSTEEL", OR SIMILAR

			Price Per Foot	No. 14	No. 12	No. 10
TWO CONDUCTOR	Solid	Single Strip	\$.06	\$.10	\$.14	
THREE CONDUCTOR	Stranded	" "	\$.09	.13	.17	
FOUR CONDUCTOR	Solid	" "	.17	.20		
ONE CONDUCTOR	Stranded	" "	.09	.10	.11	
OVALFLEX	2 Conductor	" "	.07	.11	.14	
	3 Conductor	" "	.10	.14		

Double Strip Armored Cable add 30% to above prices.

Anti-Short Fibre Bushings for ABC Cable, Each..... \$.01

Clips or Staples 3/4" for Armored or Non-Metallic Cable, Each..... \$.01

"B X L" LEAD COVERED ARMORED CABLE

			Price Per Foot	No. 14	No. 12	No. 10
Single Conductor Solid Lead Covered			\$.13	\$.16		
Two Conductor Solid	Stranded	" "	.28	.35	.43	
Three " "	Stranded	" "	.34	.43	.50	

ARMORED LAMP CORD

			Price Per Foot	No. 18	No. 16	No. 14
Plain Armored Lamp Cord	Single Strip		\$.10	\$.12	\$.15	
Reinforced Lamp Cord	Single Strip		.18	.20	.28	

Add 30% for Double Strip

NON-METALLIC SHEATHED CABLE "Romex", "Loomwire", "Wireflex", or similar

Size	No. 14	No. 12	No. 10
2 Conductor Without Ground Wire	\$.05	\$.06 1/2	\$.09
2 " With " "	.05 1/2	.07	.10
3 " Without " "	.08	.11	.14
3 " With " "	.08 1/2	.11 1/2	.14 1/2
Size	No. 8	No. 6	No. 4
2 Conductor Without Ground Wire	\$.14	\$.20	\$.27
2 " With " "	.15	.21 1/2	.29
3 " Without " "	.22	.29	.39
3 " With " "	.22 1/2	.30 1/2	.42

Fittings	No. 14	No. 12	No. 10	No. 8	No. 6	No. 4
Straps "Buck" Each	\$.01	\$.01	\$.01	\$.01	\$.01	\$.01
Grounding Clip (Open Wiring) Each	.03	.03	.03			
Connectors Threadless Ea.	.07	.07	.07			
Threaded Ea.	.10	.10	.20	.30	.50	.50

CUTOUTS OR FUSE BLOCKS

PLUG CUTOUTS 125 Volts, 30 Amp. Porcelain

Description	Universal No.	Price Open Type	Covered Type
Single Pole—Main Line	62569	\$.25	
Double " "	62965	.35	\$.50
Triple " "	62165	.60	.65
Double Pole Single Branch	61935	.35	.55
" " Double	62587	.55	1.00
" " Cross	8020	.40	
Triple to D. P. Double Branch	62199	.55	1.10
Triple Pole Single Branch	8042	.65	1.10
" " Double	62135	.85	1.75

DEAD FRONT PLUG CUTOUTS

With Covers

	Benjamin 30 Amp.	4 Circ.	8 Circ.	12 Circ.	16 Circ.
With Flush Cover 59904-8-12-16	\$1.80	\$3.60	\$5.40	\$7.30	\$9.30
With Overhanging Cover 59804-8-12-16	2.00	4.10	6.00	8.10	

	With Short Cover	With Long Cover
BRYANT		
Double Pole Single Branch No. 71935	\$.95	
" " Double Branch No. 72587 & 82587	1.45	\$1.55
Triple to Dble. Pole Dbl. Branch No. 72199 & 82199	1.55	1.65

GENERAL ELECTRIC

	Without Cover	With Cover
2 Circuit No. 2436 & 2435 30 Amp. 250 Volt	\$.65	\$1.25
4 " No. 2441 & 2440 " "	.85	1.85

CARTRIDGE CUTOUTS

Porcelain Base, 250-600 Volts

	0-30 Amp.	31-60 Amp.	61-100 Amp.
Single Pole Main Line Enclosed Porcelain	\$.35	\$.55	\$1.20
Double " "	.50	1.10	2.20
Triple " "	.65	1.55	3.10
Double Pole Two Wire Single Branch Porcelain	.55	1.35	
" " Double	1.00	3.00	
Double Pole Three Wire Double Branch Porcelain	1.20	3.30	
Triple Pole Three Wire Single Branch Porcelain	1.05	2.60	
Triple Pole Three Wire Double Branch Porcelain	1.75	4.65	

SLATE BASE

	250 Volt	600 Volt	30 A.	60A.	100A.	200A.	400A.	600A.
Single Pole-Slate Base-250 V.	\$.10	\$.11	\$.12	\$.15	\$.20	\$.25	\$.40	\$.55
600 V.	x .60	x .85	x 1.40	3.00	7.80	10.10		

NOTE—Cartridge Cutouts are sometimes called Enclosed Cutouts. Cutouts marked "X" are porcelain base.

C-SUNDRIES

GROUND CLAMPS

Standard Adjustable Ground Clamps, any make.	3/4" to 1 1/4"	1 1/4" to 2 1/4"	2 1/4" to 3"
	No. 3	No. 4	No. 5
Blackburn	\$.24	\$.28	\$.37
Other Types	8 1/2"	1 1/4"	1 1/4"
Chase Shawmut 3661-68	\$.20	\$.25	\$.30
G. V. A Series 5000	.26	.32	.37
G. V. S Series 8000	.11	.13	.14

STRAPS, CLIPS OR CLAMPS

For Pipe, Without Screws

	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/4"	3"
Galvzd. Straps, 2 Hole	\$.01	\$.01	\$.01	\$.01	\$.01 1/2	\$.02	\$.03	\$.04	\$.05	
Light Steel Straps, 1 Hole	.03	.04	.05	.07						
Mall. Iron Straps, 1 Hole	.06	.07	.08	.10	.17	.25	.45	.70	.95	
P & S Conduit Clamps	.10	.14	.18	.22	.26					

(See Also Page PL-25)

COLORING & FROSTING LIQUID

	7 ounce Cans	15 ounce Cans	30 ounce Cans	1/2 Pint Bottle	1 Pint Bottle	Quart Bottle
Crescent (McGill)	\$.20	\$.40	\$.75	\$.10	\$.20	\$.40
Cefco	\$.20	\$.40	\$.75	\$.10	\$.20	\$.40
Francis					2.30	4.60
Clips for Loom					2c Each or 3 for 5c	
Crowfeet					1/4, 1/4, 1/4 \$.05 Each	1/2 \$.10 Each

CORD & WIRE CONNECTORS

SMALL FIXTURE & WIRE CONNECTORS Solderless

Insulated Solderless Wire or Fixture Connectors Similar to "Simplex"	
"Wirenuts" "Marr" "No Torch" "Wirelets" "Ideal" Etc.—each	\$.10
Non-Insulated Solderless Wire Connectors—2 Screw—All Metal	.10

PL-10

Cord & Wire Connectors

SET SCREW CONNECTORS Round Brass

Wire Size	No. 12-14	No. 10	No. 8	No. 6	No. 4
Divided Wall—2 Screws.....	\$.10	\$.12	\$.13	\$.14	\$.19
Hole Thru 4 ".....	.14	.16	.18	.20	.24
" " 2 ".....					.25
Wire Size	No. 2	No. 1/0	No. 2/0	No. 3/0	No. 4/0
Divided Wall—2 Screws.....	\$.20				
" " 4 ".....	.28	\$.35	\$.42	\$.70	\$.95
Hole Thru 2 ".....	.30	.36			
" " 4 ".....	.34	.38	.55	.70	.95

DOSSERT SOLDERLESS CONNECTORS

Size of Conductor	Up to No. 4	3 to No. 1	No. 0	No. 2/0	No. 3/0	No. 4/0
2 Way S & Elbows.....	\$.65	\$.75	\$.80	\$ 1.00	\$ 1.20	\$ 1.40
Cable Taps.....	1.00	1.10	1.20	1.40	1.75	2.10
3 Way S & Y's.....	1.00	1.10	1.20	1.40	1.75	2.10
Lugs—All Types.....	.60	.60	.60	.70	.90	1.10

CORD & MOTOR CONNECTORS

Arrow	No.	Complete Price	Body Only Price	Cap Only Price
Midget Comp. 8238		\$.50		
" " 8239		.65		
Motor Conn. RP-8221		.55	8221 \$.50	RP \$.10
" " RL-8221		.65	8221 .50	RL .20
" " RA-8222		.55	8222 .50	RA .15
" " RM-8222		.70	8222 .50	RM .25
" " TM-8222		.70	8222 .50	TM .25
" " RH-8224		.90	8224 .65	RH .30
" " RG-8281		.90	8281 .65	RG .30
" " 8330 to 33		.80		
" " 8334 to 37		.90		
Bryant				
Motor Conn. KR-130		.60	130 .45	KR .20
" " KG-103		.60	103 .45	KG .20
" " KT-130		.55	130 .45	KT .10
Hubbell				
Cord Connector 5894		.60	5574 .45	5896 .20
" " 6116		.55	6118 .45	5964 .15
" " 6179		.60	6630 .45	6631 .20
" " 6180		.55	6630 .45	6181 .15
" " 5518		.60	5574 .45	5420 .20
" " 7083		1.30	7084 .85	7056 .50
" " 7090		1.80	7091 1.10	7092 .80
" " 6408		1.25	6409 .90	6149 .45
Weber				
Cord Connector 2274		.60	.74 .45	2200 .20
Wirt				
Cord Connector .50		.55		

NOTE: For Attachment Plugs and other caps—See Pages PL-16 & PL-17.

E-SUNDRIES

EXTENSION CORDS—MADE UP

With Attachment Plug & Socket, but Guards-Lamps & Handles Extra

Length in Feet	With Lamp Cord and Key Socket No. 18 Twisted	With Reinforced Cord and Key Socket		With Artificial Silk Cord and Key Socket Twist. or Paral.	
		No. 18	No. 16	No. 18	No. 16
4 Foot.....	\$.95	\$1.05	\$1.10	\$1.00	\$1.10
6 ".....	1.00	1.15	1.20	1.10	1.20
8 ".....	1.05	1.25	1.30	1.20	1.30
10 ".....	1.10	1.35	1.40	1.30	1.40
12 ".....	1.15	1.45	1.50	1.40	1.50
14 ".....	1.20	1.55	1.60	1.50	1.60
16 ".....	1.25	1.65	1.70	1.60	1.70
18 ".....	1.30	1.75	1.80	1.70	1.80
20 ".....	1.35	1.85	1.90	1.80	1.90
22 ".....	1.40	1.95	2.00	1.90	2.00
24 ".....	1.45	2.05	2.10	2.00	2.10
Length in Feet		With All Rubber Cord and Weatherproof Socket			
		Light		Heavy	
		No. 18	No. 16	No. 18	No. 16
4 Foot.....		\$1.25	\$1.40	\$1.45	\$1.55
6 ".....		1.45	1.65	1.75	1.85
8 ".....		1.65	1.90	2.05	2.15
10 ".....		1.85	2.15	2.35	2.45
12 ".....		2.05	2.40	2.65	2.75
14 ".....		2.25	2.65	2.95	3.05
16 ".....		2.45	2.90	3.25	3.35
18 ".....		2.65	3.15	3.55	3.65
20 ".....		2.85	3.40	3.85	3.95
22 ".....		3.05	3.65	4.15	4.25
24 ".....		3.25	3.90	4.45	4.55

ELBOWS & BENDS For Rigid Conduit

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"
Black.....	\$.15	\$.19	\$.28	\$.39	\$.52
Galv.....	.17	.22	.32	.43	.58
Size	2"	2 1/2"	3"	3 1/2"	4"
Black.....	\$.83	\$ 1.35	\$ 3.63	\$ 8.00	\$ 9.25
Galv.....	.96	1.55	4.13	9.13	10.52

EXPANSION SHIELDS & ANCHORS

Ackerman-Johnson—Dryvin—Star—Diamond—Cinch—Packtite or Similar

Size of Hole	These Prices Do Not Include Screws.	Length In Inches	Inside Diameter	Takes Screw No.	Price Each
1/8"	1/4" to 1 1/4"	1/8"	5-6-7	5-6-7	\$.05
1/4"	1/4" to 1"	1/4"	5-6-7	5-6-7	.06
3/8"	1 1/4" to 1 1/2"	3/8"	5-6-7	5-6-7	.08
1/2"	1 1/2" to 1 3/4"	1/2"	8-9-10-11	8-9-10-11	.06
5/8"	1 3/4" to 2"	5/8"	8-9-10-11	8-9-10-11	.06
3/4"	2" to 2 1/4"	3/4"	8-9-10-11	8-9-10-11	.08
7/8"	2 1/4" to 2 1/2"	7/8"	8-9-10-11	8-9-10-11	.09
1"	2 1/2" to 2 3/4"	1"	8-9-10-11	8-9-10-11	.11
1 1/8"	2 3/4" to 3"	1 1/8"	12-13-14	12-13-14	.06
1 1/4"	3" to 3 1/4"	1 1/4"	12-13-14	12-13-14	.09
1 1/2"	3 1/4" to 3 1/2"	1 1/2"	12-13-14	12-13-14	.11
1 3/4"	3 1/2" to 3 3/4"	1 3/4"	15 to 18	15 to 18	.08
2"	3 3/4" to 4"	2"	15 to 18	15 to 18	.11
2 1/4"	4" to 4 1/4"	2 1/4"	15 to 18	15 to 18	.14
2 1/2"	4 1/4" to 4 1/2"	2 1/2"	15 to 18	15 to 18	.11
2 3/4"	4 1/2" to 4 3/4"	2 3/4"	15 to 18	15 to 18	.11
3"	4 3/4" to 5"	3"	15 to 18	15 to 18	.20

LAG SCREW ANCHORS (Diamond or Smaller)

Takes Lag Screw 3/4"	3/4"	1"	1 1/4"	1 1/2"
Price Without Lag Screw.....	\$.14	\$.14	\$.17	\$.24
Takes Lag Screw 1"	1"	1 1/4"	1 1/2"	1 3/4"
Price Without Lag Screw.....	\$.42	\$.62	\$.90	\$ 1.05

FUSES

PLUG FUSES

Standard Plug Fuses—Any Make—\$.07 each or 5 for \$.25
(Some Manufacturers put these fuses up 4 in a box, in which case they should be retailed at 4 for \$.25.)

ENCLOSED FUSES, NON-RENEWABLE

Amps.	Non-Indicating Price Each		Indicating Price Each	
	250 Volts	600 Volts	250 Volts	600 Volts
1 to 30.....	Fuse \$.10	Fuse \$.30	Fuse \$.20	Fuse \$.40
35 to 60.....	.20	.40	.35	.65
70 to 100.....	.60	1.10	.95	1.75
110 to 200.....	1.20	1.85	1.85	2.90
225 to 400.....	2.15	4.10	3.35	6.35
450 to 600.....	4.10	6.00	6.35	9.25
650 to 800.....	8.95	11.00	13.85	17.35

RENEWABLE FUSES

Amps.	Fuses		Links	
	250 Volts	600 Volts	250 Volts	600 Volts
1 to 30.....	\$.50	\$ 1.10	\$.03	\$.05
35 to 60.....	1.00	1.25	.05	.06
65 to 100.....	2.00	3.00	.10	.10
110 to 200.....	4.00	5.00	.15	.15
225 to 400.....	7.50	11.00	.30	.30
450 to 600.....	11.00	16.00	.60	.60

FUSE WIRE

Size in Amps.....	1/4	3/8	1	2		
Price Per Pound.....	\$65.00	\$6.50	\$2.60	\$2.30		
Price Per Foot.....	.01	.01	.01	.01		
Size in Amps.....	3	5	6	10	15	
Price Per Pound.....	\$1.95	\$1.50	\$1.50	\$1.30	\$1.30	
Price Per Foot.....	.01	.01 1/2	.02	.02 1/2	.03	
Size in Amps.....	20	25	30	40	50	
Price Per Pound.....	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	
Price Per Foot.....	.04	.05	.07	.08	.10	
Size in Amps.....	60	70	75	80	90	100
Price Per Pound.....	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00
Price Per Foot.....	.15	.20	.21	.22	.24	.25

Fuse Strip Any Amperage... \$1.00 per lb.

Fuse Strip Any Amperage....\$1.00 per lb.

OPEN LINK FUSES

Small Wire Type

Size in Amps.	1 to 30	35 to 60	65 to 100
Numbers.....	00-0-1-2-3	2-3-5	5
Price Each.....	\$.10	\$.14	\$.20

Large Strip Type

Size in Amps.	25-100	110-200	225-400
Numbers.....	7	7 to 16	10 to 16
Price Each.....	\$.20	\$.30	\$.60
Size in Amps.	425-600	600-800	800-1500
Numbers.....	10 to 16	28	40
Price Each.....	\$1.00	\$1.75	\$6.55

STAMPED SHEET METAL LINK FUSES

Type of Link.....	B	C	D	E-F-H-I-L-M
C to C Distance.....	1 1/4"	2 1/4"	2 1/4"	See Catalog
Price Each.....	\$.11	\$.11	\$.16	\$.30

FITTINGS, CONDUIT, THREADED

STANDARD TYPES, COVERS EXTRA
"Condulets" "Taplets" "Unilets" "V. V." "Electrolets"
"Powerlets" "Adaptilets" Etc.

Type	1/2"	3/4"	1"	1 1/4"	1 1/2"
A 1-Piece	\$.33	\$.44	\$.60	\$.87	\$ 1.12
B 2-Piece	.40	.50	.70	1.12	1.47
BE " "	.85	1.05	1.55	2.38	3.15
C 1-Piece	.50	.67	.83	1.32	1.71
CO " "	.70	.81	1.05	1.75	2.25
D " "	.48	.58	.80	1.32	1.71
E 2-Piece	.40	.50	.70	1.12	1.46
F 2-Piece					
LB-LF-LL-LR	(See Page PL-13)				
LBB-LFB-LLB-LRB	For Special Form 6 Fittings See Page PL-13.				
LBL-LBR-LU-LUA	.56	.63	.81	1.47	1.96
T All One Size	.81	1.12	1.33	1.75	2.80
TA All One Size	.67	.80	1.12	1.71	2.87
TB-TL-TR	.98	1.05	1.40	2.18	3.22
U-UB-UF	.68	.81	1.12	1.71	2.38
X All One Size	.68	.75	1.10	1.76	2.35
Gaskets	.84	1.09	1.47	1.96	2.50
Reducers	.14	.14	.21	.28	.28
Unions	.21	.21	.28	.42	.56
	.63	.70	1.05	1.48	2.52

Type	2"	2 1/2"	3"	3 1/2"	4"
A 1-Piece	\$2.32	\$5.46	\$ 6.50	\$10.60	\$11.70
B 2-Piece	3.00	5.46	6.50	10.60	11.70
BE " "	3.65	5.46	7.30	9.10	16.65
C 1-Piece	5.45	10.60	11.70	19.90	22.10
CO " "	3.40	6.24	8.10	11.70	14.30
D " "	4.46	6.75	10.27	16.38	17.95
E 2-Piece	3.40	6.24	8.10	11.70	14.30
F 2-Piece	3.00	5.46	6.50	10.60	11.70
LB-LF-LL-LR					
LBB-LFB-LLB-LRB	For Special Form 6 Fittings See Page PL-13.				
LBL-LBR-LU-LUA	3.50	6.50	8.45	13.65	15.60
T All One Size	3.72	8.52			
TA All One Size	3.58	6.50	9.75	14.30	16.90
TB-TL-TR	5.53				
U-UB-UF	3.58	6.50	9.75	14.30	16.90
X All One Size	4.20	7.80	10.15	16.38	18.75
Gaskets	4.90	7.80	13.00	16.90	20.80
Reducers	.35	.52	.52	.65	.65
Unions	.70	1.30	1.75	2.60	3.58
	3.78	6.18	10.40		

NOTE: For Special Prices on Types F&LB Entrance Fittings See Page PL-13.

COVERS
For Above

	1/2"	3/4"	1"	1 1/4"
Sheet Steel Blank Met. Cover	\$.11	\$.15	\$.33	\$.45
Cast-Iron	.21	.31	.69	.70
Porcelain with Holes	.14	.22	.35	.51
Metal with 1/4 Nipple	.28	.35	.59	.65
" " 1/2 " "	.33	.40	.54	.70
" " 3/4 " "	.35	.42	.56	.73
Porcelain with 1/4 Nipple	.35	.42	.60	.82
" " 1/2 " "	.42	.49	.67	.88
" " 3/4 " "	.49	.57	.74	.95
Porcelain for Drop Cord	.49	.56	.70	
Porcelain Weatherproof Sockets	.22	.35	.56	
Composition with Holes	.28	.42	.70	1.40
Composition Split with Holes	.56	.84	1.40	2.80
Sheet Steel Blank Met. Cover	\$.63	\$.79	\$ 1.05	\$ 1.12
Cast Iron	.98	1.26	1.61	1.75
Porcelain with Holes	.67	.84	1.12	1.26
Metal with 1/4 Nipple	.82			
" " 1/2 " "	.86			
" " 3/4 " "	.88			
Porcelain with 1/4 Nipple	1.01			
" " 1/2 " "	1.08			
" " 3/4 " "	1.16			
Porcelain for Drop Cord				
Porcelain Weatherproof Sockets				
Composition with Holes	1.55	1.68		
Composition Split with Holes	3.10	3.36		

RECEPTACLES & ROSETTES
For Above

(For Description See Crouse Hinds' Catalog)	1/2"	3/4"	1"
Lamp Receptacle without Shade Holder Groove	\$.35	\$.42	\$.50
with Shade Holder Groove	.42	.50	.56
Fixture Rosette with 1/4 or 1/2 Nipple—Male or Female	.56	.63	.70
Cord Rosette with One Outlet	.42	.50	.56
" " Two Outlets	.50	.56	.63
Polarity Plug Receptacle for Hubbell 6 Amp.	.56	.63	.70
Attachment Plug Receptacle for Hubbell 6 Amp.	.77	.85	.91
	.56	.63	.70

FS SERIES FOR FLUSH DEVICES
Shallow Type Without Covers, Any Make

No. Gangs	No. Pipe Outlets	Series	1/2"	3/4"	1"
Single Gang	One	FS-FSA	\$.91	\$ 1.05	\$ 1.19
"	Two	FSC-FSL-FSR-FSLA-FSS-FSAA	1.05	1.26	1.54
"	Three	FSCA-FSCC-FSCT-FST	1.40	1.75	2.03
"	Four	FSX-FSCD	1.68	2.10	2.38
Two Gang	One	FS-FSA	1.68	1.82	1.96
"	Two	FSC	1.82	1.96	2.17
"	Three	FSD	2.03	2.17	2.31

FS SERIES FOR FLUSH DEVICES—Continued

No. Gangs	No. Pipe Outlets	Series	1/2"	3/4"	1"
2 Gang Tandem	One	FS	2.31	2.45	2.59
"	Two	FSC	2.45	2.59	2.73
Three Gang	One	FS-FSA	2.52	2.66	2.73
"	Two	FSC	2.66	2.80	2.87
"	Four	FSD	2.73	3.01	3.32
Four Gang	One	FS-FSA	3.08	3.22	3.36
"	Two	FSC-FSSE	3.29	3.43	3.50
"	Five	FSD	3.44	4.00	4.34

COVERS FOR FS FITTINGS

Description	Single Gang	2 Gang
Metal Cover for Std. Flush Push Switches	\$.21	\$.42
" " " Tumbler or Toggle Switches	.21	.42
" " " Rotary Switches	.21	.42
Metal Cover for Single Flush Receptacle	.21	.42
" " Duplex Flush Receptacle	.42	.84
" " with Lift Cover	.84	1.68
" " for Disapp. Door Receptacle	1.12	2.24
" " with 1/4 Metal Nipple	.49	
" " 1/2 " "	.54	
" " 3/4 " "	.56	
Blank Metal Cover Sheet Steel	.14	.28
" Cast-Iron	.35	.70
Porcelain Cover with Holes	.28	
Cast Cover with Guard for Push Switches	.49	.81

Description	3 Gang	4 Gang
Metal Cover for Std. Flush Push Switches	\$.63	\$.84
" " " Tumbler or Toggle Switches	.63	.84
" " " Rotary Switches	.63	.84
" " Single Flush Receptacle	.63	.84
" " Duplex Flush Receptacle		
" " with Lift Cover	2.52	3.36
" " for Disapp. Door Receptacle		
" " with 1/4 Metal Nipple		
" " 1/2 " "		
" " 3/4 " "		
Blank Metal Cover Sheet Steel	.56	.84
" Cast-Iron	1.05	1.40
Porcelain Cover with Holes		
Cast Cover with Guard for Push Switches	1.40	1.96

METAL COMBINATION PLATES FOR FS SERIES

2 Gang for One Switch and one Sgle. or Duplex Receptacle	\$.70
2 " " " " Bull's Eye with Ruby Glass	1.75
3 " " " " One Receptacle & one Bull's Eye	1.96

NOTE: Although our prices on conduit fittings apply to all makes we use Crouse Hinds' numbers and lists for convenience.

G & H WITHOUT ADJUSTABLE BAR

Type	5 Amp.	10 Amp.	15 Amp.	20 Amp.
Crouse Hinds or Similar				
G.....	\$.66	\$.70	\$ 1.05	\$.70
GL.....	.63	.77	1.12	.77
GA-GLA-GT.....	.84	.98	1.33	.98
GTA-GX.....	1.05	1.19	1.68	1.19
H.....	.42	.56	.91	.56
HA.....	.49	.63	.98	.63
HH.....	.56	.70	1.05	.70
HHC.....	.84	.98	1.33	.98
HLA.....	.63	.77	1.12	.77

Type	20 Amp.	25 Amp.	30 Amp.	35 Amp.
Crouse Hinds or Similar				
G.....	\$.90	\$ 1.05	\$ 1.40	\$ 1.05
GL.....	1.05	1.19	1.61	1.19
GA-GLA-GT.....	1.26	1.40	1.82	1.40
GTA-GX.....	1.50	1.68	2.24	1.68
H.....	.84	.91	1.26	.91
HA.....	.91	.98	1.40	.98
HH.....	.98	1.05	1.40	1.05
HHC.....	1.26	1.40	1.82	1.40
HLA.....	1.05	1.19	1.61	1.19

G & H WITH ADJUSTABLE BAR

Type	5 Amp.	10 Amp.	15 Amp.	20 Amp.
Crouse Hinds or Similar				
G.....	\$.77	\$.91	\$ 1.26	\$.91
GL.....	.84	.98	1.33	.98
GA-GLA-GT.....	1.05	1.19	1.54	1.19
GTA-GX.....	1.26	1.40	1.89	1.40
H.....	.63	.77	1.12	.77
HA.....	.70	.84	1.19	.84
HH.....	.77	.91	1.26	.91
HHC.....	1.05	1.19	1.54	1.19
HLA.....	.84	.98	1.33	.98

Type	20 Amp.	25 Amp.	30 Amp.	35 Amp.
Crouse Hinds or Similar				
G.....	\$ 1.26	\$ 1.33	\$ 1.68	\$ 1.33
GL.....	1.33	1.50	1.89	1.50
GA-GLA-GT.....	1.54	1.68	2.10	1.68
GTA-GX.....	1.75	1.96	2.53	1.96
H.....	1.12	1.19	1.54	1.19
HA.....	1.19	1.26	1.68	1.26
HH.....	1.26	1.33	1.68	1.33
HHC.....	1.54	1.68	2.10	1.68
HLA.....	1.33	1.50	1.89	1.50



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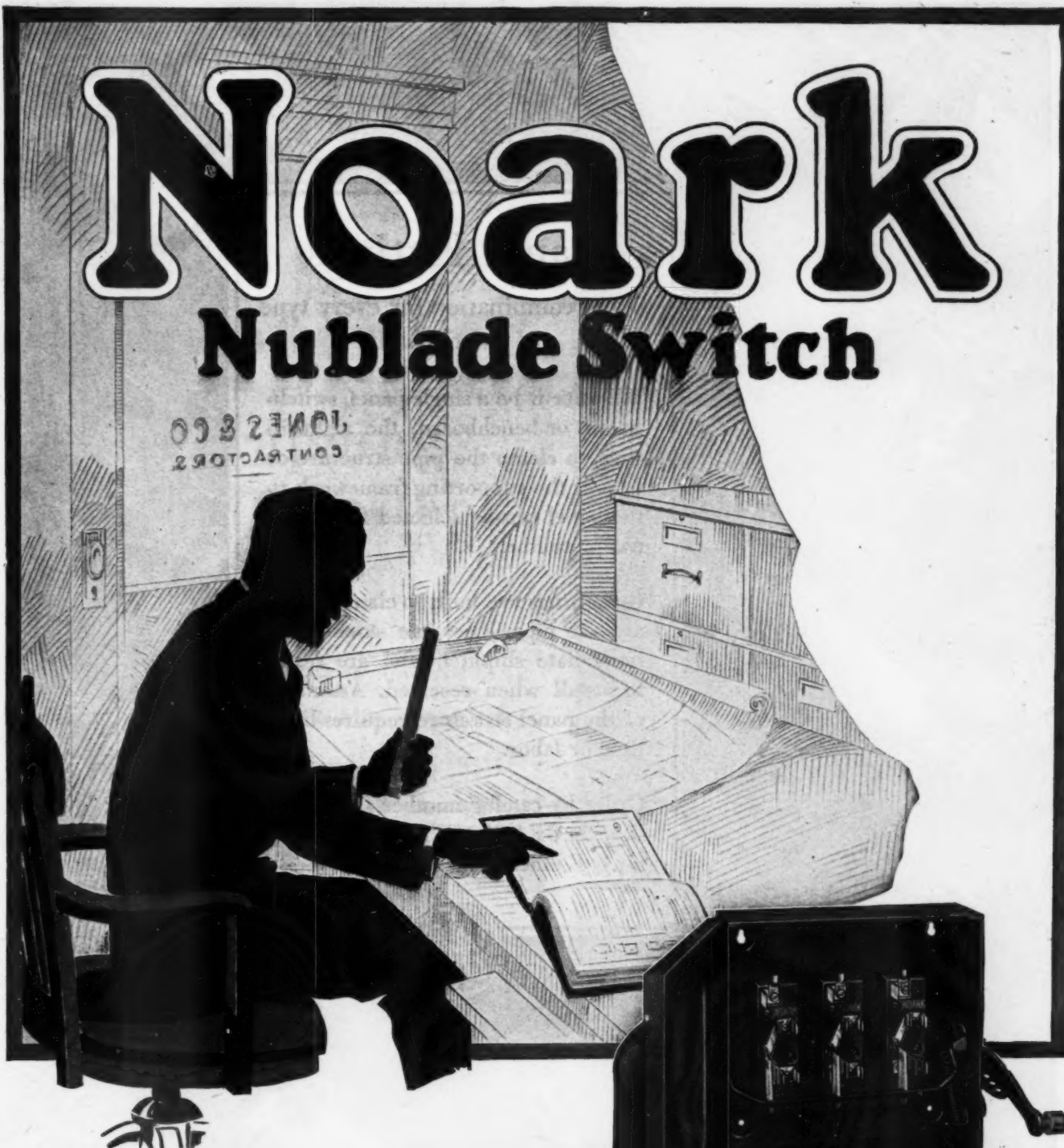
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20 Amp.	5 Amp.	10 Amp.	20 Amp.

	5 Amp.	10 Amp.	20 Amp.	5 Amp.	10 Amp.	20 Amp.
Porcelain.....	\$.28	\$.35	\$.56	\$.21	\$.21	\$.49
Blank Metal.....	.21	.28	.35	.14	.14	.35
Porcelain with 1/2" Nip..	.42	.49	.77	.42	.42	.68
" " " " " "	.56	.63	.91	.49	.49	.84
Metal " " " " " "	.35	.42	.49	.28	.28	.42
" " " " " "	.42	.49	.56	.35	.35	.49
" " " " " "	.49	.56	.63	.42	.42	.56

(See Page 51 Crouse-Hinds Catalog No. 2000)

	Price Each
Lamp Receptacle with Shade Holder Groove No. H546.....	\$.70
Fixture Rosette Porcelain with $\frac{3}{8}$ " Nipple No. H549 & H548.....	.77
" " " No. H551 & H552.....	.91
Fixture Rosette Composition with $\frac{3}{8}$ " Nipple No. H571 & H572.....	1.00
Corn Rosette Porcelain H553.....	.60
" Composition H554.....	.60
Lamp Receptacle—One Piece—No. H556 or 557.....	.75

	$\frac{1}{8}"$	$\frac{1}{4}"$	$\frac{3}{8}"$
J	\$.84	\$1.05	\$1.60
A-JB-JU	.98	1.19	1.61
L	1.19	1.33	1.50
T	1.33	1.60	1.61
X	1.50	1.61	1.82
K	.70	.91	1.33
KA-KB-KC-KD	.84	1.05	1.50

Lamp Receptacle S. H. Groove.....	\$.63
No S. H. Groove.....	.56
Fixture Rosette with Nipple.....	.56
Plug Receptacle 6 Amp.....	.70
20.....	.91
Cord Rosette.....	.49
Blank Cast Cover.....	.42

Crouse Hinds or Similar

Prices are for Iron Fittings and include Guard and Globe		Form 75
V-VA Complete as Above.....	\$5.85	\$5.92
VB-VC-VL Complete as Above.....	5.98	6.11
VCA-VLA-VT-VE-VS Complete as Above.....	6.17	6.30
VTA-VX Complete as Above.....	6.30	6.56
VXA Complete as Above.....	6.57	6.83
VF-VK-VP Complete as Above.....	6.37	6.50
VD-VJ Complete as Above.....	6.70	6.83
Prices are for Iron Fittings and include Guard and Globe		Form 200
V-VA Complete as Above.....	\$7.02	\$7.09
VB-VC-VL Complete as Above.....	7.15	7.28
VCA-VLA-VT-VE-VS Complete as Above.....	7.28	7.50
VTA-VX Complete as Above.....	7.41	7.67
VXA Complete as Above.....	7.67	7.93
VF-VK-VP Complete as Above.....	7.48	7.60
VD-VJ Complete as Above.....	7.67	7.80

	Form 75	Form 200
Guard with Half Metal Shade.....	\$3.90	\$4.20
" " Gauge Metal Shade.....	6.50	7.80
" " without Shade.....	2.34	2.95
Globes only, clear.....	1.12	1.12
" " opal.....	1.54	2.38
" " green-blue & orange.....	2.38	3.30
" " ruby.....	3.30	4.06
Brass Reflector Holder Galv. Finish.....	1.96	3.31
Threaded Blank Covers Iron Black Finish.....	1.05	1.40
Sealing Plate Iron Galv. Finish.....	.21	.35
Receptacle with Gasket & Screws.....	.56	.66

For Type GS Fittings

(Page 89 Crouse Hinds Catalog No. 2000)

	Form 75		Form 200	
	Iron	Brass	Iron	Brass
Pendant or Bracket Type Complete...	\$7.93	\$11.18	\$8.80	\$12.42
Receptacle Only.....				.56

NOTE: Above numbers and figures are for Crouse Hinds' make or similar

STANDARD TYPES

"Kondur" Crouse-Hinds "Appleton" or Similar

Types Without Covers	3½"	3¾"	1"	1½"
A.....	\$.46	\$.62	\$.84	\$1.26
B.....	.53	.70	.95	1.47
BE.....	.95	1.23	1.79	2.74
C.....	.74	.94	1.33	2.03
CB.....	1.04	1.34	1.86	2.80
D.....	.74	.94	1.29	2.03
E.....	.53	.67	.94	1.48
LB-LF-LI-LR.....	.81	.98	1.40	2.17
SE.....	.81	1.09	1.71	2.66
T-TL-TR.....	1.04	1.34	1.85	2.80
TB.....	1.47	1.82	2.38	3.64
U & UB.....	.91	1.12	1.54	2.52
X.....	1.33	1.82	2.45	3.43
XB.....	2.03	2.52	3.29	.....
LB-LB-LR-LU.....	1.26	1.68	2.31	.....

Types Without Covers	1½"	2"	2½"	3"
A.....	\$1.61	\$3.15	\$ 6.65	\$ 8.10
B.....	1.96	3.85	6.65	8.10
CB.....	3.64	6.30	11.70	13.90
C.....	2.66	5.11	8.55	11.15
CB.....	3.55	6.16	9.90	14.30
D.....	2.66	5.11	8.55	11.15
E.....	3.99	7.00	11.85	14.85
LB-LF-LL-LR.....	2.94	5.18	9.80	11.50
SE.....	3.99	7.00	11.85	14.85
T-TL-TR.....	3.85	6.16	9.90	14.40
TB.....	5.18	9.00
U & UB.....	3.29	6.00	10.10	13.20
X.....	4.48	8.33	12.35	19.15
XB.....

	1 1/2"	3/4"	1"	1 1/2"
H Couplings.....	\$.32	\$.48	\$.83	\$1.11
KO Box Connector.....	.20	.29	.67	1.34
NO " ".....	.24	.31	.56	.84
SCA Cable Connector.....	.33	.47	.24
SLP Short Elbow.....	.39	.52	.83	1.00
KOL Box Connector.....	.43	.57	.98	1.54
KOR Reducer.....	.58	.63
	1 1/2"	2"	2 1/2"	3"
H Couplings.....	\$1.54	\$3.21	\$4.00	\$6.37
KO Box Connector.....
NO " ".....	1.18	2.49	3.28	4.30
SCA Cable Connector.....
SLP Short Elbow.....	1.23	2.66
KOL Box Connector.....	2.07	4.20
KOR Reducer.....

	1½"	2"	2½"	3"
Blank Metal.....	\$3.12	\$3.16	\$3.32	\$4.48
Rubber Gasket.....	.14	.14	.22	.28
Metal, ¼ Nip.....	.28	.35	.49	.65
" ¼ ".....	.32	.40	.54	.69
" ½ ".....	.35	.42	.56	.72
" ¾ ".....	.42	.49	.63	.79
Porcelain with Holes.....	.14	.21	.35	.50
Metal, Cord Grip.....	.28	.35	.49
	1½"	2"	2½"	3"
Blank Metal.....	\$5.63	\$7.79	\$11.05	\$15.05
Rubber Gasket.....	.28	.50	.84	.84
Metal, ¼ Nip.....	.82
" ¼ ".....	.86
" ½ ".....	.88
" ¾ ".....	.96
Porcelain with Holes.....	.68	.84	1.12	1.12
Metal, Cord Grip.....

Lamp Recept.				14"	34"	1"
"				\$.35	\$.42	\$.49
"				.42	.49	.56
Porcelain for Weatherproof Socket WP2.....				.28
Polarity Plug Receptacle 10 Amp. P.....				.56	.63	.70
" " Duplex PD.....				..	.70	.78
Snap Switch	5 Amp.	125 Volt	Non Indicating....	\$.70	Sgle. Pole	Dble. Pole
"	5	125	" Indicating.....	.77	..	3 Pole
"	10	125	" Non-Indicating.....	1.12	\$1.47	1.47
"	10	125	" Indicating.....	1.26	1.68	..

Any Make

Type]	1 Gang			2 Gang		
	$\frac{1}{2}''$	$\frac{3}{4}''$	1"	$\frac{1}{2}''$	$\frac{3}{4}''$	1"
FSE-FSB.....	\$1.05	\$1.26	\$1.40	\$1.82	\$2.03	\$2.24
FSC-L & R.....	1.33	1.61	2.03	2.10	2.31	2.66
FST.....	1.75	2.31	2.73			
FSD.....	1.26	1.61	2.03			
FSD.....	1.75	2.31	2.73	2.38	2.73	3.08

Type	3 Gang	4 Gang
FSE-FSB.....	\$2.73	\$3.01
FSC-L & R.....	3.08	3.36
FST.....		3.71
FSU.....		
FSD.....	\$3.22	\$4.27

Covers for Above

	One Gang	2 Gang
Blank Metal Plate.....	\$.37	\$.70
Receptacle Plate.....	.28	.38
Toggle or Push Button Switch Plate.....	.38	

TYPE "O" FOR SNAP SWITCHES, ETC.

Type	5 Amp.		10 Amp.		
	$\frac{1}{4}''$	$\frac{3}{4}''$	$\frac{1}{2}''$	$\frac{3}{4}''$	$1''$
OA.	\$.63	\$.64	\$.77	\$1.05	\$1.33
OC.	.77	1.05	.91	1.26	1.68
OCB.	1.19	1.54	1.33	1.75	2.24
OE.	.56	.77	.70	.98	1.26
OEB.	.91	1.12	1.05	1.33	1.75
OL.	.91	1.12	1.05	1.33	1.75
OLB.	1.19	1.54	1.33	1.75	2.24
OT.	1.19	1.54	1.33	1.75	2.24
OTB.	1.54	1.96	1.68	2.10	2.80
OU.	.77	1.05	.91	1.26	1.68
OUE.	1.19	1.54	1.33	1.75	2.24
OX.	1.54	1.96	1.68	2.10	2.80
AXB.	1.80	2.31	2.03	2.52	3.36

TYPE "O" FOR SNAP SWITCHES, ETC.—Continued

Type	2	3	4
	1/2"	3/4"	1"
OA	\$1.03	\$1.19	\$1.61
OC	1.19	1.40	1.90
OCB	1.61	1.96	2.52
OE	.98	1.12	1.47
OEB	1.33	1.54	2.10
OL	1.33	1.54	2.10
OLB	1.61	1.96	2.59
OT	1.61	1.96	2.59
OTB	1.96	2.38	3.22
OU	1.12	1.47	1.90
OUE	1.61	1.96	2.52
OX	1.96	2.38	3.22
OXB	2.31	2.87	3.78

COVERS FOR TYPE "O" FITTINGS

	5	10	20
	Amp.	Amp.	Amp.
Blank Metal Cover, Round.....	\$.21	\$.28	\$.35
Porcelain Cover, Round with hole.....	.25	.35	.49
Metal Cover with ¼ or ½ Cord Grip.....	.25	.42	.49
Blank Metal Cover with ¾ male or female nipple....	.35	.42	.49
" " " " " " " " " " " " " " " "	.42	.49	.56
" " " " " " " " " " " " " " " "	.49	.56	.63
" " " " " " " " " " " " " " " "	.56	.63	.70
Rubber Gaskets.....	.14	.14	.21
Lamp Receptacles Porcelain Edison Base.....	.42	.49	..
" " " " Composition T Slot.....	.84	..	..

REDUCING BUSHINGS

	Large End	%	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Small End	3/4"	\$.41	\$.53	\$.71	\$.80	\$1.05	\$1.40	\$1.55
			.60	.76	.90	1.19	1.50	1.67
1"	1 1/4"			.81	.94	1.29	1.60	1.86
1 1/4"	1 1/2"				1.13	1.43	1.90	2.42
1 1/2"	2"					1.51	1.90	2.42
2"	2 1/2"						2.27	2.97
2 1/2"	3"							3.26

FITTINGS, SPRAGULETS, WIRELETS OR T & B

BRANCH TYPE
Series 48

Description		G.E., Steel City or T & B Numbers	Price Each
	Branch Body for $\frac{1}{4}$ & $\frac{3}{4}$ " Rectangular Shape.	SP-48241	\$.27
	Cover Metal Flat Closed.	SP-48C1	.11
01	01 01 with $\frac{1}{2}$ " Knockout.	SP-48C8	.11
01	01 01 Pendant Type with $\frac{1}{8}$ " Bushing.	SP-48C8	.12
01	01 01 Pendant Type with $\frac{3}{8}$ " Bushing.	SP-48C11	.16
01	01 01 with $\frac{1}{8}$ " Male or Female Nipple.	SP-48C22 & 23	.30
01	01 01 with $\frac{3}{8}$ " Male or Female Nipple.	SP-48C24 & 25	.41
	Cover Porcelain with one or two wire Holes.	SP-48C75 & 76	.14
01	01 01 three or four wire Holes.	SP-48C77 & 78	.15
01	01 01 Male or Female Nipple.	SP-48C82 & 83	.29
01	01 01 $\frac{1}{4}$ " Male or Female Nipple.	SP-48C84 & 85	.41

SHALLOW TYPE

Series 14

Description		G.E., Steel City or T & B Numbers	Price Each
Body Octagonal Shape for $\frac{1}{4}$ " or $\frac{3}{8}$ "		SP-1421	\$.35
Cover Metal Flat Closed		SP-14C1	
" " Raised with $\frac{1}{2}$ " Knockout		SP-14C7	.11
Cover Metal Flat Pendant with $\frac{1}{4}$ " Bushing		SP-14C8	.12
" " " "		SP-14C11	.16
" " " with $\frac{1}{4}$ or $\frac{3}{8}$ Male or Female Nip.		SP-14C22-23-24-25	.29
" " " For all surface Mounted Devices		SP-14C28	.14
" " " Raised for Sign Receptacles		SP-14C31-32-34-35-36	.12
" " " Flat for all Fluted Devices		SP-14C39	.35
" " Porcelain with one or two holes		SP-14C75 & 76	.14
" " " Three or Four holes		SP-14C77 & 78	.15
Cover Porcelain with $\frac{1}{4}$ " Male or Female Nipple		SP-14C82 & 83	.29
" " " " "		SP-14C84 & 85	.41
Raised Angle Adaptor for Device Covers		SP-14C47	.26
" " " with One Shade Holder		SP-14C07	.60

DEEP TYPE
Series 34

Description		G. E., Steel City or T & B Numbers	Price Each
	Body Deep Octagonal Shape $\frac{1}{8}$ " & $\frac{3}{8}$ "	SP-34461	\$.47
	Cover Metal Blank Flat	SP-34R1	.14
	Cover Metal For Flush Switches	SP-34R2 & 3	.14
"	" Rotary Switches	SP-34R4	.14
"	" Receptacles without Door	SP-34R5	.14
"	" Receptacles with Door	SP-34R6	.41
"	" Standard Dble. Plug Receptacle	SP-34R7	.14
"	" Hubbell Dble. Plug Receptacle	SP-34R8	.24
"	" Chapman Recept. with Doors	SP-34R9	.60
"	" For GE 30 Amp. Polarized Plug Recep.	SP-34R13	.17
"	" GE Tumbler Switches	SP-34R14	.14
"	" Hubbell and H&H Tumbler Switches	SP-34R15 & 16	.19

COUPLINGS

SP-1410 Complete Coupling for $\frac{1}{2}$ " Conduit.....	Price \$.16
SP-1420 " " " $\frac{3}{4}$" " .....	.24

FITTINGS, ENTRANCE

"ADAPTI"

Ent. Ells with Cov. Ser. 1100.....	1 1/2	3 1/2	1"	1 1/2"
" Fitt. with Cov. Ser. 2700.....	\$.45	\$.50	\$.60	\$1.05
Angle Ent. Fitt. with Cov. Ser. 2700...	.50	.55	.65	1.15
Signal Ent. Caps No. 2810-2811.....	.55	.55	.65	1.20
	.75	.75		
Ent. Ells with Cov. Ser. 1100.....	1 1/2	2"	2 1/2"	3"
" Fitt. with Cov. Ser. 2700.....	\$1.50	\$3.00		
Angle Ent. Fitt. with Cov. Ser. 2700...	1.90	3.00	\$4.25	\$7.05
Signal Ent. Caps No. 2810-2811.....	2.00	3.10	6.30	7.50

“UNILETS”

FEB Elbow with Cov. 1700 & 1900....	1 ⁴ / ₈	1 ⁴ / ₈	1 ¹ / ₂	1 ¹ / ₂
FB Elbow with Cov. 1713 to 16.....	\$.50	\$.60	\$.70	\$1.70
FC End Fitt. with Cov. 1723-33-43.....	.35	.50	.60	
AY Angle Fitt. 1950 to 54.....	.20	.25	.30	
LAY End Fitt. with Cov. 1790 to 94.....	.55	.60	.70	1.95
	.55	.60	.75	1.35
FEB Elbow with Cov. 1700 & 1900....	1 ¹ / ₂	2 ¹ / ₈	2 ¹ / ₂	3 ¹ / ₈
FB Elbow with Cov. 1713 to 16.....	\$1.60	\$3.25	\$7.50	\$0.00
FC End Fitt. with Cov. 1723-33-43.....	.....	.....	.....	.....
AY Angle Fitt. 1950 to 54.....	2.35	.....	.....	.....
LAY End Fitt. with Cov. 1790 to 94.....	1.75	.....	.....	.....

"BEND HICKS"

	1½"	¾"	1"	1¼"
Bend Hicks Galvanized.....	\$.50	\$.60	\$.85	\$ 1.75
	1½"	2"	2½"	3"
Bend Hicks Galvanized.....	\$ 2.15	\$ 4.10	\$ 6.60	\$ 8.25

"CONDULETS"

Form 6

	1½"	¾"	1"	1½"
F Type Ent. Fitt. with Porc. Cov.....	\$3.40	\$3.45	\$3.60	\$3.95
LB Type Ent. Fitt. with Metal Cov....	.45	.50	.60	1.15
	1½"	2"	2½"	3"
F Type Ent. Fitt. with Porc. Cov.....	\$1.60	\$2.85	.....	.....
LB Type Ent. Fitt. with Metal Cov....	1.40	2.45	.....	.....

"ELECTROLETS"

FB Angle Fitt. with Cov. 713-83.....	1 1/2"	3/4"	1"	1 1/4"
KA End Fitt. with Cov. 1013 to 43.....	\$.45	\$.55	\$.70	\$1.10
KB Elbow Fitt. with Cov. 1113 to 33.....	.20	.20	.25	.30
SLB Elbow Fitt. with Cov. 1 to 4.....	.35	.50	.60	.75
Y Capped Elbow Y1 to 5.....	.50	.60	.65	1.75
FB Angle Fitt. with Cov. 713-83.....	1 1/2"	2"	2 1/2"	3"
KA End Fitt. with Cov. 1013 to 43.....	\$1.80	\$3.00	\$7.00	\$8.50
KB Elbow Fitt. with Cov. 1113 to 33.....	.....	.....	.....	.....
SLB Elbow Fitt. with Cov. 1 to 4.....	.....	.....	.....	.....
Y Capped Elbow Y1 to 5.....	2.15	.....	.....	.....

G. E. See T & B below

GEE-VEE

F Service Cap Series 6000.....	1½"	\$3.45	\$3.50	1"	1¼"
B " " " 16000.....		.45	.50		\$1.00
B Pipe " " 1000-1310.....		.40	.50		1.00
B " " " 2000 & 2100.....		.40	.45	.65	.75
FB Universal " " 3000.....		1.00	1.25	1.65	2.75
Weathercap " " 40122.....		.55	.55		
Service Elbow " " 19000.....		.40	.55	.65	1.00
A Terminal " " 10000.....		.40	.45	.70	1.05
Endo Terminal Series 90000.....		.15	.20	.25	
F Service Cap Series 6000.....	1½"	\$1.90	\$3.35	2"	2½"
B " " " 16000.....		1.50	3.35	7.60	\$9.25
B Pipe " " 1000-1310.....		1.20	1.75	3.00	4.15
B " " " 2000 & 2100.....		1.05			
FB Universal " " 3000.....		3.75	4.40	9.50	12.70
Weathercap " " 40122.....					
Service Elbow " " 19000.....		2.75	3.85		
A Terminal " " 10000.....		1.40	2.40	4.55	7.40
Endo Terminal " " 90000.....					

"GEM POWERLETS"

	1½"	¾"	1"	1¼"
MA Fittings with Porc. Cover.....	\$.25	\$.35	\$.45	\$.70
MB " " " "	.35	.60		
MF & MFF Fitting with Porc. Cover...	.60	.60	.70	1.70
MFB Fitting with Porc. Cover.....	.35	.60	.60	
MLB Fitting with Metal Cover.....	.60	.60	.75	1.35
MPA Fitting with Porc. Cover.....	.15	.20		
MY.....	.60	.60	.65	
MRA.....	.50			
	1½"	2"	2½"	3"
MA Fitting with Porc. Cover.....	\$.95	\$1.90	\$3.55	\$6.00
MB " " " "				
MF & MFF Fitting with Porc. Cover...	1.90	3.35	7.50	9.25
MFB Fitting with Porc. Cover.....				
MLB Fitting with Metal Cover.....	1.65			
MPA Fitting with Porc. Cover.....				
MY.....				
MRA.....				

Fittings, Entrance

T & B			
	1½"	2"	3"
Ent. Cap 1525-32 with Cover.....	\$1.40	\$1.45	\$1.00
Capped Elbow 1470-84 with Cover.....	.50	.60	.70
Insulets 1610-11-12 with Cover.....	.15	.20	.25
Angle Insulets 1640-1-2 with Cover.....	.30	.45	.60
Cable Insulets 2000 with Cover.....	.15	.....	.....
	1½"	2"	3"
Ent. Cap 1525-32 with Cover.....	\$1.70	\$2.95	\$6.25
Capped Elbow 1470-84 with Cover.....	2.30	.....	.....
Insulets 1610-11-12 with Cover.....	.....	.....	.....
Angle Insulets 1640-1-2 with Cover.....	.....	.....	.....
Cable Insulets 2000 with Cover.....	.....	.....	.....

ROUND "ADAPTI" BOXES

Series Numbers	Style	1½"	1¾"	1"
No. 2900 to 2903	1 Back Outlet	\$.40	\$.48	\$.60
No. 3000 to 3005	1 Side Outlet	.43	.50	.74
No. 3100 to 3105	" " "	.40	.48	.60
No. 3100T & 3101T Thrdls.	" " "	.48	.55	.87
No. 3170 to 3175	" " "	.47	.54	.87
No. 3200 to 3205	2 " "	.48	.54	.77
No. 3200T & 3201T Thrdls.	" " "	.60	.68	1.00
No. 3270 to 3275	" " "	.60	.67	.94
No. 32170 to 32175	" " "	.54	.60	1.00
No. 3300 to 3305	3 " "	.64	.88	.98
No. 3300T to 3305T Thrdls.	" " "	.82	.95	1.00
No. 33170 to 33175	" " "	.71	.83	1.07
No. 3400 to 3405	4 " "	.80	1.05	1.20
No. 3500 to 3705	2 " "	.54	.60	.75
No. 3800 to 3805	" " "	.54	.60	.80
No. 3900 to 4105	3 " "	.80	.93	1.08
No. 4800 to 5005	4 " "	.94	1.03	1.34

Series Numbers	Style	1¾"	1½"	2"
No. 2900 to 2903	1 Back Outlet	\$1.10	.....	.....
No. 3000 to 3005	1 Side Outlet	1.30	\$2.00	\$2.70
No. 3100 to 3105	" " "	1.10	1.80	2.40
No. 3100T & 3101T Thrdls.	" " "	1.15	1.85	2.46
No. 3170 to 3175	" " "	1.25	2.13	2.70
No. 3200 & 3205	2 " "	1.25	2.13	2.70
No. 3200T & 3201T Thrdls.	" " "	1.40	2.28	2.88
No. 3270 to 3275	" " "	1.34	2.20	2.80
No. 3300 to 3305	3 " "	1.96	2.68	3.00
No. 3300T to 3305T Thrdls.	" " "	1.70	2.75	3.10
No. 33170 to 33175	" " "	1.87	2.90	3.35
No. 3400 to 3405	4 " "	1.40	2.28	3.35
No. 3500 to 3705	2 " "	1.40	2.28	3.35
No. 3800 to 3805	" " "	1.85	2.90	4.00
No. 3900 to 4105	3 " "	1.85	2.90	4.00
No. 4800 to 5005	4 " "	1.95	3.55	4.70

PARTS For Above Boxes

Series No.	Description	1/2"	3/4"	1"
500-501-502	Base Only	\$.27	\$.27	\$.34
500X-501X	Extension Ring	.27	.27	.40
501A	Base Concealed to Expd.	.67	.67	.67
0500	" with Tapped Boss	.34	.34	....
510 to 512	Base	.40	.40	.80
520 to 522	"	.27	.27	.52
530	"	1.50	1.50	....
540 to 542	"	.27	.27	.52
30 to 35	Metal Side Plates	.14	.14	.20
40 to 42	Insulated Side Plates	.16	.16	.34
50 to 54	Arm'd. Flex. Side Plates	.34	.43	.52
60 to 65	Angle Outlet	.16	.24	.43
70 to 75	Elbow Outlet	.24	.30	.50
90 to 93	Connecting Outlet	.28	....	.34
100 & 101	Straight for No. 500 Base	.16	.24	....
110 to 113	" " No. 501 "	.28	.34	.43
120 to 125	" " No. 502 "	.47	.53	.67
130 to 135	" " No. 503 "	1.08	1.33	1.60
140 to 145	" " No. 504 "	2.67	3.08	3.48
300 & 301	Threadless Outlet	.20	.28	....
310 & 311	"	.34	.40	....
Series No.	Description	1 1/4"	1 1/2"	2"
500-501-502	Base Only	\$.54	\$1.08	\$1.08
500X-501X	Extension Ring	.40	....	....
501A	Base Concealed to Expd.	.67	....	....
0500	" with Tapped Boss	....	....	....
510 to 512	Base	.80	1.60	1.60
520 to 522	"	.52	1.08	1.08
530	"	....	....	....
540 to 542	"	.52	1.08	1.08
30 to 35	Metal Side Plates	.20	.38	.38
40 to 42	Insulated Side Plates	.34	.67	.67
50 to 54	Arm'd. Flex. Side Plates	.67	....	....
60 to 65	Angle Outlet	.48	.94	1.08
70 to 75	Elbow Outlet	.55	1.00	1.14
90 to 93	Connecting Outlet	....	.40	.47
100 & 101	Straight for No. 500 Base	....	....	....
110 to 113	" " No. 501 "	.48	....	....
120 to 125	" " No. 502 "	.80	.94	1.07
130 to 135	" " No. 503 "	1.88	2.14	2.40
140 to 145	" " No. 504 "	3.87	4.28	4.67
300 & 301	Threadless Outlet	....	....	....
310 & 311	"	....	....	....

COVERS For Round Adapti Boxes

Numbers	Description	Price
1	Porcelain One Hole Cover.....	\$.18
2	Metal For Devices.....	.30
3	Porcelain One Hole Cover.....	.30
4	Porcelain.....	.22
5 & 6	Porcelain with $\frac{1}{4}$ " Male or Female Nipple.....	.38
7 & 8		.53
9 & 10	Malleable with $\frac{1}{4}$ " Male or Female Nipple.....	.30
11 & 12		.38

NOTE: For "Adapti" Entrance Fittings See Page PL-13.

Fittings, Armored Cable

"GROUNDULET" FITTINGS

Crouse Hinds—Appleton & Similar

Type GCA

Without Soldering Lug	Price
Fitting No. GCA-12 For 1/4" Conduit.....	\$.77
" " " -172 " " with lug .....	.81

Type GCD

Type GCD		Price
GCD-12	For 1/2" Conduit without Lug with one Strap.....	\$.90
GCD-172	For 1/2" Conduit with Lug with one Strap.....	.95
GCD-22	For 3/4" Conduit with Lug with two Straps.....	1.77
GCD-32	For 1" Conduit with Lug with three Straps.....	2.61

Type GCE & GCEE

With Strap Clamp Terminal

Size of Conduit	1/2"			3/4"			1"		
Outside Diameter	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"
of Water Pipe	2 3/8"	4 1/8"	6 3/8"	2 3/8"	4 1/8"	6 3/8"	2 3/8"	4 1/8"	6 3/8"
Number.....	12	14	16	22	24	26	32	34	36
Price.....	\$1.58	\$1.80	\$2.16	\$2.97	\$3.42	\$4.14	\$4.41	\$5.09	\$6.17

Type GCE

With Threaded Plug Terminal

GCE-142 For 1/2" Conduit without Lug.....	\$.90
GCE-242 " 3/4" " with Lug.....	1.04
GCE-342 " 1" " with Lug.....	1.17

Type GC

For Open Ground Wire

GC-92	Cast Brass with No. 4 Lug.....	\$.72
GC-922	" " " " 00 Lug.....	1.44

GC BRASS BUSHINGS For Ground Fittings

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Without Cap Screw...	\$.10	\$.13	\$.20	\$.24	\$.31	\$.46	\$.84	\$1.10
With Cap Screw.....	.20	.24	.31	.32	.40	.61	1.00	1.25

TERMINALS, LUGS, JUMPERS, CLIPS, ETC.

	Price
Soldering Lug GCA30 For GCA & GCD Fittings.....	1.80
Water Meter Shunt No. GC-192.....	1.04
Strap Clamp Terminal For Water Pipe 1/2" to 3/4" No. GCE-012.....	1.26
" " " " 3/4" to 1 1/2" No. GCE-014.....	1.80
" " " " 1 1/2" to 6 1/2" No. GCE-016.....	36
Conduit End Terminal 1/2" No. GCE1.....	50
" " " " 3/4" No. GCE2.....	50
" " " " 1" No. GCE3.....	63
Jumper Strap No. GC110.....	15
Threaded Plug Terminals, Iron No. GCE042.....	36
" " " " Brass No. 082.....	72
Jumper Cable No. GC800, Per Foot.....	40
Jumper for Bonding Conduit 8" Long, No. 808 Per Foot.....	50
" " " " 12" No. 812.....	43
Soldering Lug Brass for 1/2" Conduit No. 130.....	30
" " " " 3/4" or 1" No. 160.....	20
Soldering Lug Copper for Bushing 1/2" to 3/4".....	10
" " " " 3/4" to 6".....	05
Brass Stud Double End Fits Bushings 1/2" to 6" No. GC52.....	20
Soldering Clips for Bushings 1/2" to 1 1/2".....	05
" " " " 1 1/2" to 6".....	09
Grounding Strap, No. GC100, Per Foot.....	25
Strap Clamp, Steel No. GC101.....	35
" " " " Brass No. GC102.....	65

FITTINGS OR BOX CONNECTORS, ARMORED CABLE

For BX or Armored Cable		Size of	Price
Description		K. O.	Each
Standard	Squeeze Connector $\frac{3}{8}$ " - $\frac{1}{2}$ "	$\frac{3}{8}$ "	\$.06
	Set Screw Connector $\frac{3}{8}$ " - $\frac{1}{2}$ "	$\frac{3}{8}$ "	.08
"	Slip In Connector $\frac{3}{8}$ " - $\frac{1}{2}$ "	$\frac{3}{8}$ "	.06
"	Duplex Connector $\frac{3}{8}$ " - $\frac{1}{2}$ "	$\frac{3}{8}$ "	.18

STRAIGHT

BOX	Squeeze or Tangent Type	1 3/4"	.30
		1 1/4"	.50
		1 1/2"	.65
CONNECTORS		1 3/4"	.85
		2"	1.25

**90 DEGREE
ANGLE BOX
CONNECTOR**

	Type	1½"	1.25
		1½"	.32
	Squeeze	1½"	.40
	or	1½"	.75
45 DEGREE	Tangent	1½"	1.00
ANGLE BOX	Type	1½"	1.25
CONNECTOR			

PANEL BOX CONNECTOR

	Locknut	1 1/2"	1.88
		2"	2.58
.....			
	For 1/2" Conduit		.36
	1/2"	1/2"	.38
	3/4"	3/4"	.42
	1"	1"	.54
	1 1/4"	1 1/4"	.65
	1 1/2"	1 1/2"	.90
	2"	2"	1.10
			1.60

ELECTRICAL CONTRACTING

FITTINGS OR BOX CONNECTORS, ARMORED CABLE—
Continued

COUPLINGS FOR RIGID TO FLEXIBLE CONDUIT	For 1/2" Conduit		Price
	No.	Description	Price
	1	Straps—Fasteners & Bushings	\$.02
	2	Toggle with Wire Loop	\$.03
	3	Set Screw Connector	\$.15
	4	Special Box Connector	\$.10
	5	90 Degree Box Connector	\$.35
	6	Connector for Ovalflex to Metal Molding	\$.35
	7	Squeeze Connector	\$.10

Bushings or Ferrules—Brass..... .02

FITTINGS FOR "OVALFLEX" ARMORED CABLE

Number	Description	Price
2150-57-60-61	Straps—Fasteners & Bushings	\$.02
2159	Toggle with Wire Loop	\$.03
2176-2180-2154	Set Screw Connector	\$.15
2179-2181	Special Box Connector	\$.10
2155-2156	90 Degree Box Connector	\$.35
412-413	Connector for Ovalflex to Metal Molding	\$.35
9050-8	Squeeze Connector	\$.10

HANGERS

FOR CABLE & CONDUIT
Minerallac

Mineraiac				Porcelain Bushings			
Hangers		Lead Covered Cable Size	Price		Mfgs. No.	For RC Cable	Price
Mfgs. No.	Conduit Size		Jap Fin.	Gl. Fin.			
0	1/2"	No. 1 to 4 0	\$.07	\$.11	1	8-2-0	\$.10
1	3/4"	4 0 to 300 M	.08	.11	2	3-0-4-0	.12
2	1"	300 to 750 M	.10	.12	3	250M-450M	.13
3	1 1/4"	800 to 1125M	.10	.12	4	500M-700M	.15
4	1 1/2"	1500 M	.14	.15	5	750M-1000M	.17
5	2"	2000 M	.14	.16	6	1125-2500M	.24
6	2 1/2"		.16	.18			

ADJUSTABLE BEAM HANGERS
T & B or Similar

Type	Price Each
Type A Clamp Including Bolts Fits Flange 2 1/2" to 7 1/2"	\$.50
Type B & C Clamp Including Bolts Fits Flange 7 to 12"	\$.75
Special Bolts	\$.10

Supports for above Hangers

For One Conduit Steel	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
" Two Conduit Mall.	.20	.25	.33	.40	.50			
" Four Conduit Mall.	.31	.36						

NOTE: For Price of Complete Hanger add Prices of Clamp & Supports.

HANGERS & PERFORATED BAR
Grabler

For 1/2" to 1 1/2" Conduit	Per Foot	Price
" 2" to 3"		\$.05
" 3 1/2" to 6"		.06

Hangers

No.	Description	1/2"	3/4"	1"	1 1/4"
1	Hinge Hanger with Extn. Bar & Lag Screw	\$.17	\$.17	\$.18	\$.20
7	Band Hanger Extn. Bar and Beam Clamp	.20	.20	.21	.24
13	Hinge Hanger, Socket and Beam Clamp	.32	.32	.35	.36
200	Band Hanger Only	.09	.09	.10	.11

No.	Description	1 1/4"	2"	2 1/2"	3"
1	Hinge Hanger with Extn. Bar & Lag Screw	\$.23	\$.25	\$.26	\$.31
7	Band Hanger Extn. Bar and Beam Clamp	.25	.28	.30	.31
13	Hinge Hanger, Socket and Beam Clamp	.37	.44	.45	.46
200	Band Hanger Only	.12	.14	.16	.17

Lag Screws—Beam Clamps & Beam Plates

No.	Description	Each	2" to 3"	Each
19	Flattened Lag Screw with Bolt—1/2" to 1 1/2"	\$.06	2" to 3"	\$.07
20	Threaded Lag Screw, no Bolt—1/2" to 1 1/2"	.06	2" to 3"	.07
21	Beam Plate with Bolt—1/2" to 1 1/2"	.05	2" to 3"	.06
22	Beam Clamp—Forged—with Bolt 1/2" to 1 1/2"	.16	2" to 3"	.20

KNOBS, TUBES & CLEATS, PORCELAIN

KNOBS

Type	Price Each	Without Screws
No. 5 1/2 Split Knobs	\$.02 1/2	\$.02
5 1/2 Solid Knobs	.03	.02 1/2
5 1/2 Nailit		.02 1/2
5 1/2 Screwit	.03 1/2	
4 & 4 1/2 Knobs Solid	.04	.03 1/2
No. 9419 Split 1 1/2 x 1 1/2		.07
9420 Split 2 x 2 1/2		.12
22 Victor Split		.10
6061 Solid Teleph. 2 Groove		.07
6062		.10

TUBES

Diam.	3" & under	4"	5"	6"	8"	10"	12"	14"	16"
1/2"	\$.01 1/2	\$.02	\$.02 1/2	\$.03	\$.10	\$.17	\$.25	\$.32	\$.40
3/4"	.02	.02 1/2	.03	.04	.11	.19	.27	.35	.43
1"	.04	.05	.06	.07	.13	.21	.30	.38	.47
1 1/4"	.07	.08	.09	.11	.15	.25	.34	.43	.52
1 1/2"	.10	.12	.13	.15	.18	.29	.39	.49	.59

CLEATS

2 & 3 Wire

Standard No. 334 2 & 3 Wire Unglazed Cleats without Screws Per Pair	\$.04
Glazed	.06

ONE WIRE CLEATS
B & D Type—2 Piece

Old No.	Dimensions	Width	For Size Wire	Price Each
Height	Length			
1A	1 1/4"	1 1/4"	14 to 6	\$.06
1 1/2 A	2 1/4"	1 1/4"	6 " 2	.07
2A	2 1/4"	1 1/4"	2 " 0	.11
2 1/2 A	2 1/4"	1 1/4"	0 " 000	.15
3A	3 1/4"	1 1/4"	000 " 200,000 CM	.17
3B	3 1/4"	1 1/4"	000 " 200,000 CM	.18
3 1/2 B	3 1/4"	1 1/4"	2 " 500,000 CM	.20
4B	3 1/4"	1 1/4"	5 " 1,000,000 CM	.25
4 1/2 B	5	1 1/4"	8 " 1,250,000 CM	.35

LOOM & L-SUNDRIES

LOOM, NON-METALLIC CONDUIT

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Price per Foot	\$.03	\$.03	\$.09	\$.12	\$.15	\$.17	\$.23	\$.23

SOLDERING LUGS—One Hole

For Wire	Amps.	Size Wire	Price Each
Size		Hole	
No. 10 Under	25	1/4"	\$.04
8	35	3/8"	.04
6	50	1/2"	.05
4	70	5/8"	.06
2	90	3/4"	.08
0	125	7/8"	.09
00	150	1"	.12
000	175	1 1/8"	.15
0000	225	1 1/4"	.21
250 M. C. M.	237	1 1/2"	.36
400 M. C. M.	325	1 3/4"	.51
450 M. C. M.	362	1 7/8"	.70
500 M. C. M.	400	2"	.73
600 M. C. M.	450	2 1/4"	.76
800 M. C. M.	550	2 1/2"	.96
1000 M. C. M.	650	2 3/4"	1.17

For 2-Hole Lugs

With Regular Stud Holes Add 50% To Above Prices.

CONDUIT LOCKNUTS

Also on Page PL-8

Size	Price
1/2"	\$.01
3/4"	.01 1/2
1"	.02 1/2
1 1/4"	.05 1/2
1 1/2"	.09
2"	.11
2 1/2"	.19
3"	.32
3 1/2"	.40
4"	.58

LINKS

For Chain

Non-Insulating Splicing Links—Any Make—Each	Price
Insulating	\$.05
Luminous Acorns—See Page PL-4 and Page PL-18.	.15

MAIL BOXES

COUCH

No. 73 Tilting Mail Boxes Post Office approved per Receipts..... \$4.15

"TILTING" Speaking Tube Type

Series 7303 to 7309 and 73010 to 73012

No. of Boxes	3	4	5	6	7	8	9	10	11	12
Price ea.	16.20	21.60	27.00	32.30	37.80	43.20	48.60	54.00	59.40	64.80

SINGLE GANG Non-Tilting

No. 78 or 780 with call button or speaking tube unit..... Price each \$3.15

MOLDING, NATIONAL

MOLDING

No. 222 & 222 Molding For Two Wires—Per Foot.....	\$.10
033 & 044 Two to Four Wires—Per Foot.....	.11

FITTINGS

No.	Description	Price Each	No.	Description	Price Each
200-201	Bushing	\$.01	348	Cord Rosette	\$.32
223	Clip	.02	354	Double Strap	.02
232	Coupling	.04	355	Ground Clamp	.05
234	Cross	.43	356-7	Keyless Socket	.65
235	Tee	.24	360	Conven. Outlet	.75
236	90 Deg. Elbow	.20	363	4 1/2" Plate	.35
237	45 " "	.20	363A	4 1/2" Cover	.24
238-0	90 " "	.20	363B	4 1/2" " "	.28
245	Single Strap	.02	363C	Yoke	.06
255	Ground Clamp	.04	365A	4 1/2" Base	.60
278	Adaptor	.05	365B	4 1/2" Cover	.30
300	" "	.08	365C	4 1/2" Plate	.32
301	Box Connector	.15	366	6" Canopy Base	.85
303	Adaptor	.04	366A-B-C	6" Covers	.50
315	Connector	.35	370	Blank Cover	.25
316	90 Deg. Coupling	.30	371-2-3	Porcelain Cover	.25
317	90 " "	.30	374	Corner Box	.45
321A & B	Rawl Plug	.04	377	Adaptor	.10
323	Joint Cap	.02	392	Snap Switch	.85
332	Coupling & Supp.	.05	396	Pull Socket	1.15
334	Cross	.45	397	Key " 2 1/2" Base	.75
335	Tee	.24	398	" "	.60
336	90 Deg. Elbow	.22	399	Keyless Sock. 2" Base	.50
337	90 " Ext. Elbow	.20	400	Base for Socket	.50
337B	Cap for Elbow	.10	401	Box Connector	.15
338	90 Deg. Int. Elbow	.22	406	Combinat. Fitting	.30
338B	Cap for Int. Elbow	.12	407	Utility Box	.40
339	Drop Cord Box	.37	412	Connector	.24
341	Junction Box	.40	413	" "	.28
342	Surface Box	.40	414-S	" "	.24
344	Base Coupling	.04	419A & B	Toggle Bolt	.09
345	Single Strap	.02	419C	" "	.10



the 1928 code has settled this important question

THE 1927 Code Rules for Non-Metallic Sheathed Cable caused considerable confusion by specifying that this material should be used only in "dry places".

The 1928 Code Rules with 1929 revisions have cleared up this point by stating in Rule 507-c that the use of Non-Metallic Sheathed Cable is excluded only

"where exposed to the weather, or in continuously damp or moist locations."

In short, Non-Metallic Sheathed Cable may now be used in cellars, household laundries, two-car garages, and all similar locations... It is good news to every contractor, for it places a clear ruling on a point that has often been questionable.

Complete details on the installation of Non-Metallic Sheathed Cable under various conditions are included in the revised edition of the booklet — "Where and How to Use Non-Metallic Sheathed Cable". If you haven't a copy, any of the Licensed Non-Metallic Sheathed Cable Manufacturers listed below will gladly send you one.

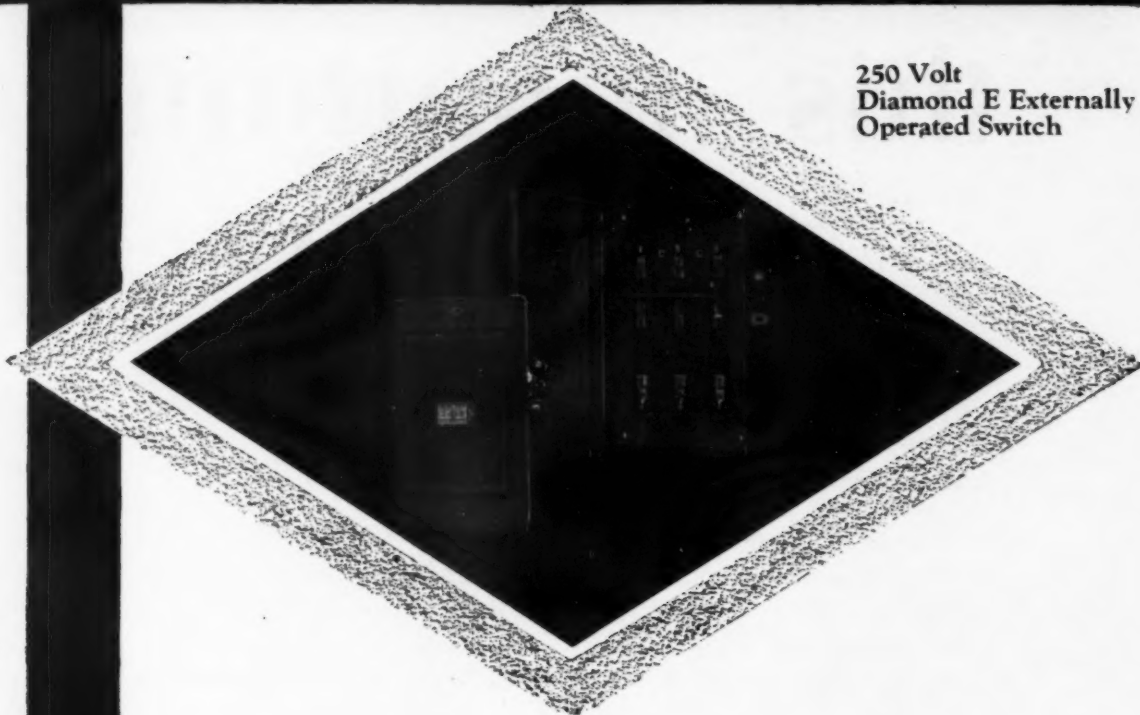
American Circular Loom Company
Anaconda Wire and Cable Company
Collyer Insulated Wire Company
Eastern Tube and Tool Company
General Electric Company
Marion Insulated Wire and Rubber Company
National Metal Molding Division
National Electric Products Corporation
Rome Wire Company
Division of General Cable Corporation
The Wiremold Company
Triangle Conduit Company, Inc.

The above Manufacturers are Licensed under Non-metallic Sheathed Cable Patents number 1439323; 1520680; 1203788; 1673752.

SHEATHED CABLE

TROUBLE-PROOF SWITCHES

250 Volt
Diamond E Externally
Operated Switch



OTHER DIAMOND E PRODUCTS

Magnetic Switches
Panels and Panellets
Automatic Motor
Starters
Pumping Plant Panels
Stage Switchboards
Wiring Gutter
Pull Boxes
Steel Cabinets
Load Testing Sets
Ground Clamps
Cable Taps and Other
Electrical Products

DIAMOND E externally operated Switches provide a maximum of safety, strength and service. They are designed "Trouble-Proof." Covers can be locked "closed" or Switch can be locked in "on" or "off" positions—preventing unauthorized re-fusing or tampering or operation at times to endanger workmen or machinery. Code gauge steel cabinets provide protection. Quick break mechanism reduces possibility of spring breakage to a minimum. All Cadmium plated current-carrying parts—providing extremely low contact resistance. Laboratory tests show that Diamond E X-O switches will carry 100% overload without excessive heating. The safest, longest-service switch on the market. Write for new literature describing all types X-O Switches.

DIAMOND ELECTRICAL

MANUFACTURING  COMPANY INC.

Associated Manufacturers

Union Electric Mfg. Co.

Milwaukee, Wisconsin

FACTORIES

Los Angeles, Calif.
1318-1362 E. 16th St.
Houston, Texas
1517 Fannin St.

DISTRIBUTING OFFICES

Robinson Sales Company
Seattle, Wash.
617 4th Ave.
Joseph Paulson
Portland, Oregon
218 Commonwealth Bldg.

FACTORIES

Milwaukee, Wis.
926 Juneau St.
San Francisco, Calif.
1264 Folsom St.

DISTRIBUTING OFFICES

O. H. Davidson Equipment Co.
Denver, Colo.
130 W. 14th Ave.
Farr Electric Service
Salt Lake City, Utah
223 South West Temple St.

SALES OFFICES AND STOCK

Cleveland, Indianapolis, Detroit, Buffalo, Baltimore, New York, Philadelphia, Boston, Toronto, Montreal,
St. Louis, Toledo, Grand Rapids, Chicago, Cincinnati, Pittsburgh, New Orleans, Birmingham

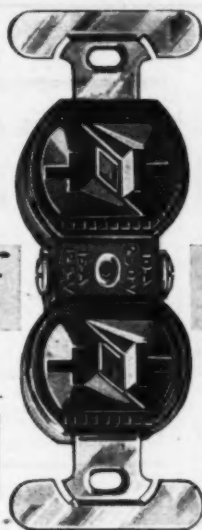


Receptacles of

molded brown

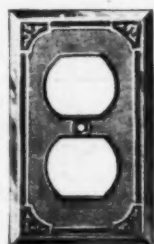
"HEGEMITE"

Duplex & Single



match the newest developments in molded

Wall Plates



and add to modish appear-

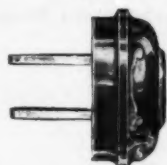
ance a matchless convenience



... a Finding

 Ridge which really *finds* the slots for the plug

prongs



Unique new device with the old

Reliability of



With plaster ears



. . . extra feature . . . Nos. 1912-G and 1911-G

 DUPLEX AND SINGLE
CONVENIENCE OUTLETS

HART & HEGEMAN DIVISION
THE ARROW-HART & HEGEMAN ELECTRIC CO.
HARTFORD, CONN. MAKERS OF ELECTRIC SWITCHES SINCE 1890

PL-16

Molding

Plugs, Attachment

FITTINGS—Continued

No.	Description	Price Each	No.	Description	Price Each
420A&B	Spring Toggle Bolt	.08	Single Plates 447-48-50		
420C		.09	451-61-91		.13
421	Lead Shield	.10	Two Gang Plates 452-62-92		.25
425A	Folding Strap	.02	Three	453-63-93	.40
426	Susp. Strap 2 Line	.04			
427	3	.05	441	Single Adaptor	.60
428A	Folding Strap	.03	442	Two Gang	1.00
430	Fixture Rosette	.60	500	Bushing	.03
434	Single Strap	.06	513	3 Gang Adaptor	1.50
435	Double Strap	.08	514	4	2.00
436	Coupling	.06	515	5	2.50
437	45 Deg. Elbow	.20	516	6	2.95
438	Sgle. Flush Box	.80	523	3	1.50
439	Surface Box	.70	524	4	2.00
439S	5	.75	525	5	2.50
440	Two Gang Surface Box	1.00	526	6	2.95
			2155	90 Deg. Connect.	.35
			2156	90	.35

OVALDUCT

3 Wire.....Per Foot \$.18

OVALDUCT FITTINGS

No.	Description	Price Each
401	Box Connector with 1/2" Locknut	\$.15
2133	Squeeze Type Coupling 1 1/4" long	.18
2134	90 Degree Internal Elbow	.35
2135	45 " Flat	.27
2156	90 " Box Connector	.34
2159	Wire Toggle Fastener	.03
2161	Strap Fastener	.02
2181	Connector Ovalduct to Oval Knockout	.10
2662	Outlet Box 4 x 1/2"	.21
2663	Extension Ring for Boxes	.20
2665	Outlet Box 4 x 3/4" with Fixture Stud	.25
2662	" 3 1/4 x 3/4	.20
2665	" 3 1/4 x 3/4 with Fixture Stud	.27
4170-S1	Sectional Switch Box 4 x 1 1/2 x 1	.38
4172-S1	Spacer for above box	.34

MOLDING, WIREMOLD

MOLDING

No. 500 2-Wire,	price per ft.	\$.10
" 700 4-Wire,	"	.12
" 1000 Master Size,	"	.25

FITTINGS

	For No. 500 2 Wire Size	For No. 700 4 Wire Size	For No. 1000 Master Size
Coupling	501 \$.04	5701 \$.04	1001 \$.06
Bushing	502 .04	702 .04	1002 .04
Supporting Clip	503 .06	5703 .06	
Strap	504 .04	704 .06	1005 .08
Connecting Cover	506 .04	706 .04	
Multiple Strap		5707 .10	
Ground Coupling or Clamp	509 .12	5709 .12	1009 .20
Flat Elbow	511-12 .22	5711-12 .22	1011 .45
Tee Plain	515 .36	5715 .36	
Cross Plain	516 .37		
Internal Elbow	517 .26	5717 .26	1017 .45
Elbow Pull Box		5717A .50	
External Elbow	518 .22	5718 .22	1018 .40
Corner Box	519 .37	5719 .45	
Narrow Fitting		5720 .55	
Show Case Fitting		5720A .45	
One Piece Rosette	521 .36	5721 .36	
Two Piece Rosette and Block	522 .60		
Fixture Rosette, 1/2"	523 .70		
" 3/4"	524 .65	5724 .65	
Receptacle Base	525 .70	5725 .70	
Keyless Receptacle	526 .90	5726 .90	
Attachment Plug	527 1.00	5727 1.00	
Utility Box		5728-20 .36	
Contact Block	.30	5730 .30	
Blank Cover	531 .14	5731 .14	
Outlet Box, 2 1/2" or 3"	532-33 .45	5732-33 .45	
Closed Extension Box		5734 .65	
Distribution Box		5735 .70	1035 1.05
Blank Cover	536 .16	5736 .16	
Extension or Fixture Box	537-38 .65	5737-38 .65	
" 6 1/4"		5739 & A .85	
Combination Box		5745 .70	
Switch or Recep. Box, Single		5747 .80	
" " 2 Gang		5747-2 1.05	
" " 3 Gang		5747-3 1.15	
Surface Box, Single		5748 .90	
" 2 Gang		5748-2 1.20	
" 3 Gang		5748-3 1.25	
Shallow Receptacle Box		5748S .70	
Push Switch Box	540 1.00	5749 1.00	
" Shallow	550 1.05	5750 1.05	
Adaptor Plate and Cover, Single	551 .70	5751 .70	
" 2 Gang	552 1.25	5752 1.25	
" 3 Gang	553 1.35	5753 1.35	
Blank Extension Box		5760 .95	
Box Connector	581 .34	5781 & A .34	
Conduit Coupling	582 .38	5782 & A .38	
Elbow Box Connector, 1/2" Male	583 .38	5783 .38	
Conduit Elbow, 1/2" Female	584 .38	5784 .38	
Combination Connector	585 .25	5785 .25	
Offset Connector		5786 .40	1086 .70
Openwork Coupling	588 .36	5788 .40	
Kick Plate			1087 .34

N-SUNDRIES

PIPE NIPPLES Made from Galvanized Wrought Iron Pipe

Length	Size 1/4"	Size 3/8"	Size 1/2"	Size 3/4"	Size 1"	Size 1 1/4"	Size 1 1/2"	Size 2"
Close Nipples	\$.06	\$.06	\$.06	\$.07	\$.10	\$.14	\$.17	\$.20
2' to 3 1/2' Long	.10	.10	.10	.12	.15			
3 1/2' to 4'						.21	.28	.35
4' Long	.11	.11	.10			.22		
5' "	.12	.12	.14	.14	.20	.24	.30	.38
6' "	.14	.15	.15	.17	.22	.28	.34	.40
7' "	.18	.18	.18	.21	.27	.34	.40	.55
8' "	.20	.20	.21	.23	.30	.37	.45	.60
9' "	.21	.21	.22	.25	.33	.40	.50	.67
10' "	.23	.23	.24	.27	.37	.40	.58	.75

NOTE RE NIPPLES—Above prices cover nipples made from ordinary Galvanized pipe as used by plumbers. If local rules call for nipples to be made from genuine conduit add the following:
For nipples made from genuine black conduit add 30% to above prices.
For nipples made from genuine Galvanized conduit add 40% to above prices.

CHASE NIPPLES & COUPLINGS

Size	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Chase Nipples, each	\$.10	\$.10	\$.10	\$.14	\$.25	\$.30	\$.32	\$.45	\$.72	\$ 1.05
Couplings	.12	.12	.12	.14						

For Erickson Couplings, see Page PL-8.

CHASE MALE REDUCERS CHASE FEMALE ENLARGERS T & B or Similar

1 1/4" to 1 1/2" Reducer, each	\$.20	1 1/2" to 1 3/4" Enlargers, each	\$.20
1 1/2" to 1 3/4" "	.25	1 3/4" to 2" "	.25
1 3/4" to 2" "	.40	2" to 2 1/2" "	.30
		2 1/2" to 3" "	.50

NAILS

Insulated

Millonite Insulated Nails, per dozen	\$.05
Leather Nail Heads, "	.05
Staples Insulated, "	.05

PLUGS, ATTACHMENT

ATTACHMENT PLUGS COMPLETE

Style	Cap	Blades	Price
Pony Comp.	Composition	Parallel	\$.15
	Metal Cov.	"	.25
Standard Comp.	Comp. 1/2"	"	.25
"	Comp. 3/4"	"	.25
"	Metal Cov.	"	.30
Bakelite Comp.	Composition	"	.35
Polarized	"	Polarized	.25
Large Size	"	Tandem	.55
Heavy Duty	Brass Cov.	Polarized	1.25
Weatherproof	One Piece	None	.35

CAPS ONLY

For Attachment Plugs

Style of Cap	Blades	Price
Composition Pony	Parallel	\$.10
" Standard	"	.10
"	Polarized	.10
Bakelite	Parallel	.20
"	"	.20
"	"	.20
Paraline Convertible	Convertible	.40
Composition Large	Tandem	.20
Metal Covered Pony	Parallel	.15
" Standard	"	.15
Brass	"	.45
"	Polarized	.45
" Heavy Duty	"	.85
"	Tandem	.40
" 20 Amp.	"	.50
Knobstrin Composition	Polarized	.95
" Brass Covered	Parallel	.85
"	Tandem	.95
Cord Grip Steel Covered	"	.50
" " " "	Parallel	.50
" " " "	Polarized	.50
" 3 Wire	"	.85

BODIES ONLY

For Attachment Plugs

Pony Composition Body only	\$ 1.10
Standard	.15
Bakelite	.20

Flasher Plugs

Diamond Flasher Button	\$.60	No. 161	\$.80
Skeedoodle Plugs No. 125	2.50	No. 165	.90
" " No. 164	.60		

PLUGS, APPLIANCE

Make	Number & Description	Price Each
American Beauty.	802-803 Plug Complete for Small Irons.....	\$.50
"	806 " " " Large Irons.....	1.35
"	807 " " " Toasters & Stoves.....	.25
Arrow.....	6510 " " " with Switch.....	.90
Beaver.....	F1 Gripall Super Type Adjust. Contacts.....	.45
"	F4 " " Nickel Alloy Contacts.....	.55
"	F5 " " Armored Case.....	.55
"	F6 " " Type Arm'd Case Nickel Alloy Cont.....	.65
"	F7 " " High Grade Bakelite.....	.60
"	F22 Suitzall Double Contacts.....	.20
"	F31 " Single Contacts.....	.15
"	F32 " Double Contacts.....	.20
"	F32 " Armored Case.....	.30
"	F34 " Small Plug Bakelite.....	.30
"	G-1 Gripall Plug Adjust. Contacts.....	.90
"	G-21 Push Button Type.....	.45
"	G-22 New Toggle Type.....	.45
Bryant.....	668 Plug Complete with Switch.....	.85
"	752 " Shorter than 668.....	.65
Cutler-Hammer.....	7051 Plug Complete with Switch.....	.90
Dover.....	13 Up Connector Plug for 3½ & 6 lb. Irons.....	.50
"	13 Switch Plug Complete.....	1.00
Hemco.....	250 Heater Plug, no Switch.....	.45
Hemco.....	Switch Appliance Plug.....	.80
Hotpoint.....	CD6P1 Iron Plug " Armored.....	.45
"	CD69P1 " " " Armored.....	.60
"	CD79P1 " " with Switch.....	1.00
Hubbell.....	7020 Appliance Switch Plug.....	.90
Kool-Pull (Colts).....	Appliance Plug, no Switch.....	1.00
"	" with Switch.....	1.25
Liberty.....	932 Heater Plug.....	.35
Plugall.....	9 Appliance Plug with Spring.....	.30
"	700 " Switch.....	.85
Propp.....	5—One 4 All Appliance Plug, no Switch.....	.30
"	55 Standard Iron Plug, no Switch.....	.25
"	56 Armored " " ".....	.55
"	52 Iron Plug with Switch.....	.55
P & S.....	1550 Appliance Switch or Pendant.....	.90
Reynolite.....	500 Reynolite Connector Plug, no Switch.....	.50
"	510 " " with Switch.....	.85
Rodale.....	P-21 Appliance Plug No Switch.....	.25
"	P-29 " " Armored.....	.30
"	610 " " Bakelite No Switch.....	.30
"	615 " " " Armored.....	.45
"	850 " " With Switch.....	.65
"	800 " " Armored With Switch.....	1.00
Security.....	151 Security Appliance Plug, no Switch.....	.40
Simplex.....	890 Armored Appliance Plug, no Switch.....	.75
Sunbeam.....	Heater Plug.....	1.50
Torrid.....	B-080 3-4-5-6 Safety Control Plug.....	1.00
"	B-080 3-4-5-6 Heat Control Plug.....	1.00
Westinghouse.....	299423 Plug Complete, no Switch.....	.75
"	373656 " " with Switch.....	1.00
White Cross.....	White Cross Heater Plug, no Switch.....	.50
"	" " with Switch.....	.90

PANEL BOARDS OR FUSE CABINETS

BULLDOG FUSENTERS

No.	Description	2	4	6	8	12
CBS	Surface	Circt.	Circt.	Circt.	Circt.	Circt.
	Black Finish with inside shield	\$1.85	\$ 2.35	\$ 3.95	\$ 7.10	\$10.40
BOS	" Black Finish without Shie'd	1.70	2.20	.....	.....	.....
BF	Flush Luminized Finish	2.50	3.75	5.40	8.80	11.80
BBF	" Black Finish	2.00	2.75	4.75	.....	.....
BBS	" Lum. Finish with Toggle Switches	.....	6.65	10.00	13.30	20.00
BSS	" Lum. Fin sh with one 30 A. Saftofuse	.....	20.60	22.00	32.00	35.25
BSS	" Lum. Finish with one 60 A. Saftofuse	.....	21.60	22.50	32.35	35.65
BKF	" Lum. Finish Combined Fusener & Pull Box	.....	6.65	10.00	15.00	20.00

Combinations—For Resale Prices on all other Fusenter Combinations deduct 17% from Bulldog Co.'s List Prices.

All Steel Equipment Co., FUSE CABS

Style & No.	Description	2 Circ.	4 Circ.	6 Circ.	8 Circ.	12 Circ.
C-702-4-6	Surface Small Type	\$1.75	\$2.45	\$ 3.75	.....	.....
C-702-4-6	Flush Small Type	2.20	2.85	4.95	.....	.....
Series D	Surface Type Spl. Fuse					
3004 to 3074	Not for Branch Switch	.....	3.20	5.10	\$ 7.50	\$10.10
	Flush Type					
3034 to 3094	Not for Branch Switch.	.....	3.75	5.60	9.00	12.10
	Surface Type Dbl. Fuse					
4002 to 4012	Not for Branch Switch.	3.20	5.10	10.10	23.00	36.00
	Flush Type Dble. Fuse					
4022 to 4032	Not for Branch Switch.	3.75	9.00	12.10	27.00	45.00
Series DS	Flush or Surface-Sgle.					
3300 & 4300	Fuse Trims for Tog. Sw.	....	6.90	9.25	13.80	21.00
	Flush or Surface-Dble.					
3500 & 4500	Fuse Trimsfor Tog. Sw.	6.90	9.25	21.00	34.50	70.00

TRUMBULL—CIRCLE T
Residence Panel Boards

	4	6	8	10	12
Surface or Flush Mounting	Circt.	Circt.	Circt.	Circt.	Circt.
Single No 3104 to 3212 Flush Mtg.					
Or Fusing 2906 to 2912 Surface Mtg.	\$2.85	\$ 4.60	\$ 9.75	\$11.30	\$13.00
Double No. 3404 to 3412 Flush Mtg.					
Or Fusing 2704 to 2712 Surface Mtg.	0.15	12.45	18.25	23.25	26.60

CUTLER-HAMMER (T-V)

Fuse Panels—Surface or Flush Mounting

	2 Cir.	4 Cir.	6 Cir.
Black Finish Series 4355 & 4356.....	\$ 1.75	\$ 2.40	\$ 4.30
Aluminum Finish Series 4355 & 4356	2.25	3.20	4.80
Circuits	8 Cir.	10 Cir.	12 Cir.
Black Finish Series 4355 & 4356.....	\$ 7.60	\$ 9.10	\$ 9.30
Aluminum Finish Series 4355 & 4356	7.95	10.00	10.70

SQUARE D Fuse Cabinets

	2	4	6	8	10	12
Series 37000 to 39000	Cirt.	Cirt.	Cirt.	Cirt.	Cirt.	Cirt.
Flush Series 37000 Black	\$1.85	\$2.50	\$4.50	\$7.90	\$ 9.60	\$11.25
" " 37000 Aluminum	2.35	3.35	5.20	8.30	10.00	11.25
Surface Series 39000 Black	1.85	2.50	4.50	7.90	9.60	11.25

NOTE: 2 & 4 Circuit Flush Type are also available with channels for Lath Ends for mounting direct to front side of studding. For these cabinets add to Resale Price each \$0.20

WESTINGHOUSE Junior Residence Type

	2	4	6	8	10	12
	Cirt.	Cirt.	Cirt.	Cirt.	Cirt.	Cirt.
Galvanized or Gray Box Junior Residence Panels						
No. K-64012-21 & 64052-61	\$1.70	\$2.50	\$ 4.50	\$ 6.65	\$ 7.90	\$10.00
Junior Branch Fuse Attach						
No. K-62395 & 62399	1.75	2.60	.....	.....	.....	.....
Junior Building Panels for Toggle Switches						
No. K-64034-42 & 64074-51	.....	6.65	10.00	13.30	16.60	20.00

DIAMOND PANELETTES

Surface Type				Flush Type			
No.	Circuits	Size	Price	No.	Circuits	Size	Price
B-4	4	7x7 x3	\$2.15	F-4	4	8x10 1/2 x3 1/2	\$ 3.30
S-4	4	8x10 1/2 x3 1/2	2.50	F-6	6	8x12 x3 1/2	4.45
S-8	8	8x12 x3 1/2	3.50	F-8	8	8x13 1/2 x3 1/2	5.25
S-8	8	8x18 x3 1/2	6.85	F-10	10	8x14 x3 1/2	6.75
S-10	10	8x15 1/2 x3 1/2	7.40	F-10	12	10x18 x3 1/2	11.15
S-12	12	10x18 x3 1/2	9.90				

Toggle Flush Type

No. of Circuits.....	4	6	8	10	12
Cat. Number.....	FS-4	FS-6	FS-8	FS-10	FS-12
Price.....	\$6.60	\$9.90	\$14.85	\$17.30	\$19.80

P-SUNDRIES

RUNNING THREAD, PIPE

Price per Foot.....	$\frac{1}{8}''$ \$.25	$\frac{1}{4}''$ \$.30	$\frac{3}{8}''$ \$.35	$\frac{1}{2}''$ \$.45
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SOLDERING PASTE

(Also on Page PL-25.)

Make	2 Oz. Cans	2 Oz. Tubes	4 Oz. Cans	Half Pound	One Pound
Allen.....	\$.30	\$.40	\$.55	\$.90	\$1.50
Burnley.....	.20		.55	.40	.70
Crescent.....	.25		.55	1.50	
G. E.....	.20			.80	1.50
Highland.....	.30			.80	1.50
Nokorode.....	.20			.80	1.50

PAINT & VARNISH

Insulating

Make	Per Pint	Per Quart	Per Half Gallon	Per Gallon
Armamac	\$.55	\$1.00	\$1.75	\$3.00
Ajax Varnish No. 25	.40	.75	1.35	2.20
Enamelac	.40	.75	1.35	2.20
G. P. Black or Clear	.45	.80	1.45	2.60
Lustorac	.40	.75	1.35	2.20
Voltolec Quick Drying	.40	.75	1.35	2.20
W. P. Black Insulating	.40	.75	1.35	2.20
P. & B. No. 2 Paint	.55	1.00	1.75	3.00
Pothead Compound, per Pound				\$.55

For Pipe Straps, see Page PL-25. For Solder, Sticks, etc., Page PL-25.

PLATES & PLUGS, RECEPTACLE

PLATES

For Flush Receptacles

	.040 Thick		.080 Thick	
Brass	Sprayed	B. Brass	Sprayed	B. Brass
Stand. Recep. Plate Single or Duplex	\$.15	\$.20	\$.20	\$.30
Lift. Cog. Pl. Single	.50	.40	.40	.40
Lift Cog. 2 Gang	.50	.60	.75	.85
Combination Switch & Receptacle			.35	.60
Disappearing Door Plate Single				.70
Duplex				1.10

SUNDRY PLATES

For Receptacles

Bakelite or Composition Plate Single or Duplex Each.	\$.20
2 Gang Combination Plate Each.	.40
Guth Porcelain Plate for Single or Duplex Receptacle.	.30
Mirror Glass Single Plate \$1.00—Duplex \$1.75—3 Gang.	2.50
Bryant Wood Inlaid One Gang For Single or Duplex Receptacle.	2.25
De Luxe All Metal	.85
Hubbell Bakelite Screwless Plate " " " "	.50
Brass Single Plate for 30 Amp. Receptacle 7072 & 7114.	1.50

PL-18

Plates & Plugs

CAPS OR PLUGS For Receptacles			
Composition	Style of Cap	Blades	Price
"	Standard	Parallel	\$.10
"	"	"	.10
"	Bakelite	Polarized	.10
"	Large Type	Parallel	.20
"	"	Tandem	.20
"	Large Type 10 Amp.	Polarized	.40
"	" 20 "	"	.45
"	" 30 "	"	1.50
"	3 Wire 10 "	"	.45
"	3 " 20 "	"	.65
"	3 " 30 "	"	1.25
"	Disapp. Door Plug	"	.70
Brass Covered	Standard 10 A.	Parallel	.45
"	" 10 A.	Polarized	.45
"	Heavy Duty 10 A.	"	.85
"	Heavy Duty 10 A.	Tandem	.50
"	Heavy Duty 20 A.	Polarized	.95
"	3 Wire 20 A.	"	1.00
Steel Covered	3 Wire 30 A.	"	2.25
"	2 " 30 A.	"	1.85
Knostrain Composition	"	Parallel	.45
"	Brass Covered	"	.95
"	"	Tandem	.85
"	"	"	.95
"	Heavy Duty	"	.65
Cord Grip Steel Covered	"	Parallel	.50
"	"	Polarized	.50
"	3 Wire 10 Amp.	"	.85
"	3 Wire 20 Amp.	"	.60
"	3 Wire 30 Amp.	"	1.70

RECEPTACLES, FLUSH

STANDARD RECEPTACLES OR CONVENIENCE OUTLETS

Without Plates			Price
Shallow Comp. Side Wired Single	Plates Extra		\$.25
" " " Duplex			.35
" " " Single			.25
Deep Comp. Top			.35
" " " Duplex			.40
" " " Single			.40
" " " Duplex			.60

SUNDRY RECEPTACLES

Plates Extra Except Where Marked "X"

For Lift Cover Plate Single			Price
" " " Duplex			.75
X With Rd. Met. Cvr. For 3/4 Box Single			.30
" " " Duplex			.45
" " " 4 " Single			.35
" " " 4 " Duplex			.50
X With Rd. Brass Plate Small Single			1.15
" " " Large			1.30
Edison Screw Base Recp. Single			.25
Disappearing Door Recp. Single			.75
" " Duplex			1.10
Screwless Plate Recp. Single			.30
" " Duplex			.45
10 Amp. Polariz. For 2 Wire Single			.65
20 " " " 2 " "			1.20
30 " " " 3 " "			3.00
10 " " " 2 " "			1.50
20 " " " 3 " "			1.65
30 " " " 3 " "			4.75
40 60 Amp. Polariz. 3 Wire Single			5.50

YAXLEY RADIO RECEPTACLES

Nos.	Connections	Price
134	Several loud speakers	\$2.50
135	Loud speaker	1.00
136	Aerial & ground	1.00
137	Battery (with plug)	2.50
138	Electrical only	1.00
142	Double loud speaker	1.15
238	Loud speaker, aerial & ground	2.00
241	Aerial, ground & elect'l	2.00
242	Loud speaker & elect'l	2.00
239	Aerial, ground & battery	2.50
353	Loud speaker, aerial, ground & elect'l	3.00

RECEPTACLE COMBINATIONS

With Plates

Bryant Numbers or Equal

	Price
2957-2979 One Porc. Flush Recp. One Tumb. Switch Tempus or Brass Pl.	\$2.00
2967-2989 One Comp. Recp. One Tumb. Switch Tempus or Brass Plate	2.00
117 " Porc. Flush Recp. One Ind. Switch- 060 Brass Plate	2.00
121 " " " One Pilot light- 060 Brass Plate	2.00
514 " Disapp. Door Rec. One Flush Switch-Bulls Eye Solid Pl.	5.00
518 " " " One Flush Switch-Bulls Eye Solid Pl.	7.50
467 " " " One Flush Switch-Bulls Eye Solid Plate	6.00
763 Duplex Flush Recp. Bulls Eye Solid Plate	3.75
558 " Push Switch Bulls Eye Solid Plate	6.80
427 Bulls Eye Receptacle & Lamp no plate	1.25
Hubbell Switch Tap Combination #7163 & 7164 without Plate	2.15

RECEPTACLES, PORCELAIN

PULL TYPE OR LAMPHOLDERS

Keyless & Pull Chain for Lighting

Univ. No.	G.E. No.	Description	Price
832		Porcelain Pull Recept. For 3/4 Box 4 Ft. Cord	\$.85
833		" " " 3/4 Box 7 In. Chain	.85
835		" " " 4" Box 4 Ft. Cord	1.00
836		" " " 4" Box 7 Inch Chain	1.00
994	2288	" " " Ring Recept. with 7" chain-Insultr-4" cord	.55
995	2292	" " " " 7" chain	.55
996	2280	" " " " 4 Foot of Cord	.55
997	2293	" " " " 7" chain & Insulator	.60
998	2287	" " " " 7" chain & 4 Ft. Cord	.60
999		" " " " 3 Foot of Chain	.80

ALABAX RECEPTACLES AND FIXTURES

P & S, Hubbell, Arrow, G. E., Bryant, Weber

Symbol: Column No. 1—Number of Alabax Fixture.
Column No. 2—Resale Price Standard White Glaze Finish.
Column No. 3—Resale Price All Over Color B-D-E-F-G-H-J-K-L-M.
Column No. 4—Resale Price Stripe Decoration No. 1A-2A-4A.

Column No. 1	Column No. 2	Column No. 3	Column No. 4	Column No. 1	Column No. 2	Column No. 3	Column No. 4
Number	White	Color	Stripe	Number	White	Color	Stripe
AL 844	\$3.30	\$3.75	.....	AL 990	\$1.90	\$2.20	\$2.40
845	3.60	4.05	.....	1200	2.20	2.45	2.65
846	3.85	4.30	\$4.75	1201	2.50	2.75	2.95
847	4.15	4.60	5.05	1202	2.20	2.45	2.65
848	1.85	2.15	2.30	1203	2.50	2.75	2.95
849	2.30	2.60	2.75	1273	.45	.60	.70
850	2.30	2.60	2.75	1274	.80	.90	1.00
851	1.40	1.65	1.85	1275	.85	1.00	1.10
852	3.30	3.75	4.20	1276	.15	.30	.40
853	3.60	4.05	4.50	1300	2.80	3.10	3.25
859	1.85	2.15	2.30	1301	2.80	3.10	3.25
863	1.85	2.15	2.30	1349	2.60	2.90	3.10
864	2.75	3.20	3.65	1350	2.60	2.90	3.10
865	3.05	3.50	3.95	1351	1.70	1.95	2.15
866	2.75	3.20	3.65	1369	2.80	3.05	3.25
867	3.05	3.50	3.95	1370	2.80	3.05	3.25
869	2.50	2.75	2.95	1371	1.85	2.15	2.30
870	2.50	2.75	2.95	1449	2.70	2.95	3.15
871	1.55	1.80	2.00	1450	2.70	2.95	3.15
872	3.30	3.75	4.20	1451	1.75	2.05	2.25
873	3.60	4.05	4.50	1469	2.85	3.15	3.30
875	2.30	2.60	2.75	1470	2.85	3.15	3.30
898	.95	1.20	1.40	1471	1.95	2.20	2.40
919	1.65	1.90	2.10	1475	2.85	3.15	3.30
920	1.65	1.90	2.10	1476	2.85	3.15	3.30
921	.70	1.00	1.15	2007	1.25	1.50	1.70
922	1.65	1.90	2.10	2008	1.35	1.65	1.85
923	2.30	2.60	2.75	2009	1.30	1.60	1.75
924	2.00	2.25	2.45	2010	1.45	1.70	1.90
929	1.95	2.20	2.40	2011	1.10	1.35	1.55
930	1.95	2.20	2.40	2012	1.15	1.40	1.60
949	2.00	2.30	2.45	2013	1.70	1.95	2.15
950	2.00	2.30	2.45	2014	1.80	2.10	2.30
951	1.10	1.35	1.55	2015	1.55	1.80	2.00
952	1.95	2.20	2.40	2371	1.90	2.15	2.35
960	1.00	1.30	1.45	2469	3.20	3.65	4.10
962	2.00	2.30	2.45	2471	2.75	3.20	3.65
969	2.15	2.45	2.60	2669	4.40	4.85	5.30
970	2.15	2.45	2.60	2671	4.00	4.40	4.85
971	1.25	1.50	1.70	2846	3.85	4.30	4.75
980	1.50	1.75	1.95	2847	4.15	4.60	5.05
981	1.40	1.70	1.85	2852	3.30	3.75	4.20
982	1.70	1.95	2.15	2853	3.60	4.05	4.50
983	1.65	1.90	2.10	9826	1.95	2.25	2.45
984	1.25	1.55	1.70	9836	1.90	2.20	2.35
985	1.20	1.50	1.65	9896	2.15	2.40	2.60
989	1.85	2.15	2.30	9906	2.20	2.45	2.65

The above Prices do not include Glassware or Lamps.

RECEPTACLES, SURFACE

SURFACE RECEPTACLES—Edison Base

Description	All Keyless	Universal	Price
Pony Cleat Receptacle Side Screws	No S. H. Groove	50715	\$.15
" " " Center	" " " "	9171	.20
Standard Cleat	" " " "	9402	.30
" " " Side	" " " "	4013	.40
Oblong	" " " "	58300	.55
Concealed	" " " "	4001	.55
	Round Base	50744	.55
	With Removable Ring	4026	.65
Oblong Receptacle for Wood Molding with S. H. Groove		9445-6	.20
Miniature or Candelabra Small Type		366-7	.25
Extended		366-7	.25
Mogul P & S. 520, Arrow 5012, GE 1194, Hubbell 3404, Weber 1422			.85

T-SLOT SURFACE RECEPTACLES

	Price
10 A. Small T Slot Concealed	2 Wire .45
10 A. Small T Slot Cleat	2 " .45
10 A. Small For Wood Molding	2 " .45
10 A. Polarized Cleat	2 " .60
10 A. Polarized Concealed	2 " .60
10 A. Polarized Wood Molding	2 " .65
10 A. Fielding Receptacle	2 " .55
10 A. Polarized Concealed	3 " .70
20 A. Polarized Cleat	2 " .70
20 A. Polarized Concealed	2 " .70
20 A. Polarized Wood Molding	2 " .80
20 A. Polarized Concealed	3 " 1.15
30 A. Polarized Composition	2 " 1.35
40 A. Polarized Porcelain	3 " 1.20
40 A. Polarized Composition	3 " 1.85
60 A. Polarized Porcelain	3 Pole 1.35

BOX RECEPTACLES

T Slot Type

	Price
10 Amp. Receptacle	\$.50
10 Amp. " with Covered Ter.	.55
10 Amp. " Polarized	.75
20 Amp. " Polarized	.75
10 Amp. 3/4 Porcelain Single	.45
10 Amp. 3/4 " Duplex	.55
10 Amp. 4 " Single	.60
10 Amp. 4 " Duplex	.70

Edison Base Type

	Price
With Metal Cover for 3/4 Box	\$.25
" " " 4 " "	.30
" " " 3/4 " Weatherproof	.30
" " " 4 " "	.35
All Porcelain for 3/4 Box	.40
" " " 4 " "	.50
Brass Covered Keyless for 3/4 x 4" Box	1.00
Brass Covered Pull Chain for 3/4 x 4" Box	2.00

ELECTRICAL CONTRACTING

Sign Receptacles

SIGN RECEPTACLES		
Edison Base		
		Price
Shallow Porcelain	Screw Terminals	\$.30
" "	Concealed Cap.....	.35
" "	with 6" Lead Wires.....	.40
" "	with Shade Holder Groove.....	.40
" "	One Piece Screw Terminal.....	.20
Deep Porcelain	with Screw Terminals.....	.30
" "	Concealed Cap.....	.45
" "	with 6" Lead Wires.....	.40
Intermediate Base		
		Price
Porcelain Cleat	Receptacle.....	\$.25
" "	" " 2 Screw.....	.25
" "	with Spring Stud.....	.25

R-SUNDRIES

STANDARD ROSETTES—Porcelain

		Price
Cleat—1 Piece Junior Fuseless Rosette.....		\$.15
" " " " Fusible .....		.20
" " " " Fusible .....		.35
Concealed—2 Piece Concealed Fuseless Rosette.....		.20
" " " " Fusible .....		.35
" " " " For Wood Moulding—Fuseless .....		.20
" " " " Fusible.....		.35
	For	
Box Type—1 Piece Rosette or Box Cover Fuseless....	3¼" Box	\$.20
" " " " " " " " with Brass Terminals		.40
" " " " " " " " " "	4" Box	\$.35
" " " " " " " " " "		.55
" " " " " " " " " "	1.20	

For Special Conduit Rosettes—See Pages PL-10, 11 and 12.

GROUND RODS

		Copperweld	Galvanized Not Wired	Galvanized Wired
	Size Foot.....	Price	Price	Price
1/4"	x5	\$.65	\$.35	.....
1/4"	x6	.75	.40	.....
1/2"	x5	1.40	.45	.....
1/2"	x6	1.65	.60	\$.70
1/2"	x8	2.10	.....	.75
1/2"	x10	2.60	.....	.....
3/4"	x5	2.05	.....	.....
3/4"	x6	2.40	.90	.....
3/4"	x8	3.15	1.15	1.05
3/4"	x10	3.85	.....	.....
1"	x5	2.90	.....	.....
1"	x8	4.40	.....	.....
1"	x10	5.35	.....	.....

RAWLPLUGS—Standard Types

Number of Rawplug	Drill Hole	For Screw No.	Price Each Any Length
6	5/8	6-7	\$.02
8	5/8	8-9	.03
10	5/8	10-11	.04
12	5/8	12	.05
14	5/8	14	.06
16	5/8	16-18	.08
20	5/8	20-22	.12

Rawlplugs for Lag Screws

Size of Lag Screw	Size Drill Hole	Size of Rawlplug	Price Each				
			Length				
			1½"	2"	2½"	3"	3½"
3/8"	3/16"	3/8"	\$.13	\$.15	\$.18	\$.20	....
1/2"	1/4"	1/2"	.14	.17	.20	.23	....
5/8"	5/16"	5/8"	....	.20	.23	.26	....
3/4"	3/8"	3/4"	....	....	.27	.30	\$.30

NOTE: For Expansion Shields—See Page PL-10.

SOCKETS

COMPLETE STANDARD SOCKETS								Pend.
Complete With	Pend. Cap	1/8 Brass Standard	1/8 Brass Brass	1/8 Brass Shell	1/8 Brass Sockets	1/8 Ang.	3/8 Ang.	Pend. Cord Grip
Key	\$.25	\$.25	\$.35	\$.45	\$.50	\$.55	\$.60	\$.50
Keyless	.23	.23	.33	.43	.47	.53	.57	.47
Pull	.35	.35	.45	.55	.60	.65	.70	.60
Push	.30	.30	.40	.50	.55	.60	.65	.55
Electroliner Brass Shell								
Key	.30	.30	.40	.50	.55	.60	.65	.55
Keyless	.25	.25	.35	.45	.50	.55	.60	.50
Pull	.40	.40	.50	.60	.65	.70	.75	.65
Push	.35	.30	.40	.50	.55	.60	.65	.55
Leveller Pull								
Pull	.50	.50	.60	.....	.....	.....	.....	.....
Threaded Catch Brass Sockets								
Key	.45	.45	.55	.....	.....	.....	.....	.65
Keyless	.40	.40	.50	.....	.....	.....	.....	.60
Pull	.60	.60	.70	.....	.....	.....	.....	.80
Push	.60	.60	.70	.....	.....	.....	.....	.80
Cold Molded								
Key	.50	.65	.70	.....	.90	.....	1.35	.75
Keyless	.45	.60	.65	.....	.85	.....	1.30	.70
All Porcelain Sockets								
Key	.50	.65	.70	.90	.95	.....	1.35	.75
Keyless	.45	.60	.65	.85	.90	.....	1.30	.70
Pull	.90	1.05	1.10	1.30	1.35	.....	1.65	1.15
Push	.60	.75	.80	1.00	1.05	.....	1.35	.85
Lock Type Brass Shell								
Key	1.00	1.00	1.10	1.20	1.25	1.30	1.35	1.25
Keyless	.95	.95	1.05	1.15	1.20	1.25	1.30	1.20
Pull	1.25	1.25	1.35	1.45	1.50	1.55	1.60	1.50
Push	1.00	1.00	1.10	1.20	1.25	1.30	1.35	1.25

CAPS For Above Sockets

	Pend.	$\frac{1}{4}$ Brass	$\frac{3}{8}$ Brass	$\frac{1}{2}$ Brass	$\frac{3}{4}$ Brass	$\frac{1}{2}$ Angle	$\frac{3}{4}$ Angle	Pend. Cord Grip
Standard Brass Cap	\$.10	\$.10	\$.20	\$.30	\$.35	\$.40	\$.45	...
Electroliter "	.10	.10	.20	.30	.35	.40	.45	...
Brass Threaded "	.10	.10	.20	\$.25
Cold Molded "	.15	.30	.355090	.35
All Porcelain "	.15	.30	.35	.55	.6090	.30

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COMPLETE STANDARD SOCKETS (Continued)
BODIES For Above Sockets

	Key	Keyless	Pull	Push Thru
Standard Brass Shell Body Only.....	\$.20	\$.17	\$.30	\$.25
Standard Electrolier Shell Body Only.....	.22	.20	.33	.25
Brass Shell Threaded Catch Body.....	.40	.35	.55	....
Cold Molded Composition Body.....	.40	.35	....	....
All Porcelain Body Only.....	.40	.35	.80	.50
Lock Type Brass Shell Body Only.....	.95	.90	1.20	.95

BASES FOR SOCKETS

BASES Only For Brass and Porcelain Sockets

	Arrow	Bryant	G.E.	Hub.	P&S	Price
Cleat Base For Open Wiring.....	19	AW	793	27	BA	\$ 4.40
Concd. Base for Concd. Wiring—Small.	21	AY	784	25	BC	.35
Brass Cov. Base Concd. Wiring—Small.	30	BH	786	26	BJ	.65
Brass Covered Base for 3/4" Box.....	32	BL	794	38	BL	.65
Brass Covered Base for 4" Box.....	35	BM	795	40	BN	1.20
Angle Concealed Base.....	23	BA	.....	30	BE	40
All Porcelain Clear.....	9219	RL	1226	156	PL	.25
" " Concealed Lrg.....	922	PZ	1236	156	PL	.30
" " For 3/4" Box.....	932	RL	1229	158	PM	.45
" " For 4" Box.....	935	RM	1228	159	PN	.55

BAYONET SOCKETS

Sometimes Called Wall Sockets or Receptacles

Keyless Brass Shell with Small Conc. or Slotted Base.....	50717 & 18	\$.40
" " " Covered Base.....	60019	.65
" " " Large " " "	60020	.90
Key " " " Small Concealed Base.....	9184	.65
" " " Covered " " "	60018	.65
" " " with Removable Ring.....	50746 & 7	.65

WEATHERPROOF SOCKETS

Composition or Porcelain with Wire Leads.....\$ 25

CANDLE SOCKETS

Medium Base Keyless Candle Socket with Rigid or Adjust. Hickey.....	\$.25
" " Tumbler Candle Socket with Rigid Hickey.....	.50
" " Pull Candle Socket with Rigid or Adjust. Hickey.....	.60
Levolier Bracket Candle Sockets Tumbler Brass No. 103 to 120.....	.70
" " " " Porcelain No. 121-122.....	.75
" " " " Fibre No. 123-124.....	.70
" " " " Brass Lever No. 127.....	.70
Intermediate Base Pull Candle Sockets Paper Jacket.....	1.25
Intermediate Base Keyless Candle Socket Porcelain.....	.25
Candelabra Type Keyless Socket.....	.35
Candelabra Type Pull Chain Socket.....	1.25

CANDELABRA OR MINIATURE SOCKETS

Keyless Porcelain with Male Thread.....	.38
" " Female.....	.38
" Brass Shell Cap.....	.50
Key Pull.....	.60
Candle Type Keyless.....	.35
Pull.....	1.25

DIM-A-LITE & LO-LITE SOCKETS

Dim-a-lite #23—	\$1.00
" 23A—	1.25
" 33—	1.25
" 34—	1.25
" 91—	1.50

Standard REFLECTOR & HUSK Sockets

One Piece with Threaded Cap.....	\$.45
" " ½ Angle Cap.....	.60
Two Piece Body Only.....	.70
" " with Threaded Cap.....	.90
" " Pendant Cord Grip.....	.80

INTERMEDIATE BASE Sockets

Key Socket 1/4 Cap.....	\$.60
Keyless Socket 1/4 Cap.....	.55
Pull Socket 1/4 Cap.....	1.30
Molded Socket Pigtail.....	.25
Candle Pull Paper Jacket.....	1.25
" " Keyless Porcelain.....	.25

SOCKET ACCESSORIES

Adaptors for Sockets—See Pages PL-4 and 18.	
Acorn Hubbard 5919-6982-7004—or Similar—Each	\$.10
Armstrong Hubbard 7015 B—50 GE 860—or Similar—Each	.30
Bushings Hard Rubber $\frac{1}{4}$ " Each .01¢ $\frac{3}{4}$ " Each	.02
Chain for Pull Sockets—Per Foot	.10
Cord for Devices—Light Type—Per Foot	.02
Cord for Devices—Heavy Type—Per Foot	.04
Handles for Sockets—Bryant 1240-1385—or Similar	.25
Splicing Links Non-Insulating for Chain—Each	.06
Splicing Links Insulating for Chain—Each	.15

SOCKETS, HEAVY DUTY

MOGUL SOCKETS

Arrow, Bryant, G. E., Hubbell, H. & H., P. & S., Weber

	Without Yoke or Cap	With $\frac{3}{8}$ or $\frac{1}{2}$ or $\frac{3}{4}$ " Iron Yoke	With $\frac{3}{8}$ or $\frac{1}{2}$ or $\frac{3}{4}$ " Alum. Cap
Porcelain One Piece Socket.....	\$.65	\$.80	\$.95
" Two "	.80	.95	1.10
" One " with Lead Wires..	.80	.95	1.10
Brass Shell Mogul Socket $\frac{3}{8}$ or $\frac{1}{2}$ "	Brass Cap.....		\$2.35
	$\frac{3}{4}$ " Shadeholder.....		2.75

HEAVY DUTY WEATHERPROOF SOCKETS

Copper or Aluminum

2	Piece Keyless $\frac{1}{4}$ "	Cap Grip	80
2	"	with Cap Grip	80
1	"	$\frac{1}{4}$ or $\frac{1}{2}$ Cap	85
1	"	with Cap Grip	85
Shadeholders for above sockets.			
2	$\frac{1}{4}$ "	Aluminum or Copper Extra	35
3	$\frac{3}{4}$ "	"	50
4	"	"	60

PL-20

Sockets, Heavy Duty

HEAVY DUTY SOCKETS—Benjamin				Price Each
Benco Keyless Socket with Clamp Ring #4700 to 4703 Medium Base				\$1.25
" " " without " " 4712 to 4715 " "				1.10
" Pull " with " " 4706 to 4709 " "				2.00
Benco Keyless Socket Copper or Alum. #4200-1-4-5 & 4335 & 7				.80
" " " Brass #4202-4203-4336				.90
" Pull " 4307-8 4225-26 4236-37 Brass, Copper or Alum.				1.55
" Mogul " Copper Clad #4210-4297				2.25
Benco Threaded Holders Only				
" " " 2 1/4"				3 1/4"
Polish. Alum. Weathpr—#4215 & 4217				\$.30 \$.55
Copper " 4370-72 & 73				.35 .55 \$.90
Brushed Brass " 4377-79 & 80				.35 .55 .90

BENJAMIN MOGUL SOCKETS				With 1/2" or 3/4" Iron Yoke	With 1/2" or 3/4" Alum. Yoke
One Piece Socket with Lamp Grip				\$1.00	\$1.25
Two Piece Socket with Lamp Grip				1.20	1.45

BENJAMIN REFLECTOR SOCKETS				With Type X or XR Fitting
Porcelain or Similar				
Medium Base Keyless Tapped 1/2-1/2-1/2 No. 4605-4609 4650-51 & 65				\$1.20
" " " Self-Locking 1/2-1/2-1/2 No. 4528-29-30-32-33				1.60
" " " Shock Absorb. 1/2-1/2-1/2 No. 4676-77-78-80-81				1.45
" " " Shock Absorb. Self Lock No. 4548-49-50-52-53				2.00
" " " Pull Chain No. 4534-35 & 4600-61-67				2.10
Mogul Base Keyless Shock Absorb. No. 4670-71-72				2.00
" " " Not Shock Absorb. No. 4656-57 4666				1.65
If X or XR Fitting not supplied on above sockets deduct				.45

SWITCHES, FLUSH TUMBLER

Plates & Boxes Extra				Price
Square Handle Porcelain Cup—Sgl. Pole				\$.35
" " " Dble.				1.00
" " " 3 Way				.50
" " " 4				3.00
" " " Composition Cup—Sgl. Pole				.85
" " " Dble.				1.35
" " " 3 Way				1.00
" " " 4				3.35
Round Handle Porcelain Cup—Sgl. Pole				.35
" " " Dble.				1.00
" " " 3 Way				.50
" " " 4				3.00
" " " Composition Cup—Sgl. Pole				1.10
" " " Dble.				1.50
" " " 3 Way				1.30
" " " 4				3.50
New 2 Circuit Type Duple-Twin-Duplex, Multitoggle, etc. 2				1.15
" " " Triple-Triple-Triplex Multitoggle, 3				1.50
" " " Single & 3-Way Type				1.35
Lock Type Porcelain Cup—Sgl. Pole				1.30
" " " Dble.				1.85
" " " 3 Way				1.55
" " " 4				3.85
EXTRAS—For Luminous Tip add for Each Handle				.40
For Glo Guide Handle Switches add for Each				1.00

TUMBLER SWITCH COMBINATIONS				Price
Bryant 2957-2979 One Tumb. Sw.—One Flush Recep. Brass or Temp. P.				\$2.00
" 2959 " " " Pilot Light .060 Plate				3.00
H & H 8887 " " " Bulls Eye .060				3.25
" 8809 " " " Recept. Bulls Eye Solid				5.45
" 8805 " " " Duplex				5.75
H & H 8974 " One tumb. sw. and one Con. Outlet				2.00
Hubbell 7163 & 7164 Switch Tap Combination No Plate				2.15

PLATES For Tumbler Switches				Price
Stamped Brass Sprayed Finish .040 Thick				\$.15 \$.30 \$.45 \$1.35
" " " Brush Brass .040				.20 .40 .60 1.55
" " " Sprayed .060				.20 .40 .60 1.70
" " " Brush Brass .060				.30 .60 .90 1.85
Bakelite or Composition Molded				.20 .40 .60 .80
Twin & Triple Struck Up Plates				.30 .30 .30
Hubbell Bakelite Screwless Plates				.60 1.10 1.60
Bryant DeLux Wood Inlaid any Finish				2.25 3.90 6.40
" " " All Metal				.85 1.50 2.10
Guth Porcelain Enamel Plates				.30 .65 1.00
Glass Mirror Plates				1.00 1.75 2.50 3.25
Combination Switch & Receptacle Plate Molded				.40
Brass .040 thick				.50

SWITCHES, FLUSH PUSH

Plate & Boxes Extra				Price
Standard Shallow Type Porcelain Cup—Single Pole				\$.35
" " " Double				1.10
" " " 3 Point				.50
" " " 4				3.15
Deep Type Porcelain Cup—Single Pole				.70
" " " Double				1.15
" " " 3 Point				1.15
" " " 4				3.15
Special High Grade—Single Pole				1.15
" " " Double				1.50
" " " 3 Point				1.50
" " " 4				3.15
Lock Type Porcelain Cup—Single Pole				1.45
" " " Double				1.85
" " " 3 Point				1.85
" " " 4				3.85
Electrolier Non-Indicating				1.75
" Indicating				1.90
Extra for Luminous Button Add Per Switch				.40

Switches, Pull Cord

PUSH SWITCH COMBINATIONS				Price
Bryant 117 D. P. Indic. Switch Flush Receptacle & .060 Plate				\$2.00
413 One Push Switch—Bulls Eye and Solid Plate				4.00
518 " Disap. Door Recp. Bulls Eye—Solid Plate				7.50
465 " D. P. Flush Switch & Pilot Lamp .060 Plate				3.50
467 " Flush Switch—Flush Recep.—Bulls Eye—Solid Plate				6.00
558 " Duplex				6.30
H & H 3752 " Bulls Eye—Solid Plate				4.00
3759 " Duplex Recep. Solid Plate				5.50
8810 " Single				5.30

PLATES For Flush Push Switches				Price
Stamped Brass Sprayed Finish .040 Thick				\$.15 \$.30 \$.45 \$1.35
" " " Brush Brass .040				.20 .40 .60 1.55
" " " Sprayed .060				.20 .40 .60 1.70
" " " Brush Brass .060				.30 .60 .90 1.85
Bakelite or Composition				.20 .40 .60 .80
Bryant DeLux Plates Wood Inlaid				2.25 3.90 6.40
" " " All Metal				.85 1.50 2.10
Guth Porcelain Plates				.30 .65 1.00
Glass Mirror Plates				1.00 1.75 2.50 3.25
Combination Push & Receptacle Plates .060 Brass				.50
" " " Molded				.40
" " " Guth Enameled				.65
" " " Mirror Glass				1.75

SWITCHES, SURFACE SNAP

METAL COVERED SNAP SWITCHES				Price
Poles	Volts	Type	Size	Amp.
Single	125	Non-Indicating	Pony	.35
"	"	Indicating	"	.40
"	"	Non-Indicating	Standard	.55
"	"	Indicating	"	.65
Double	250	Non-Indicating	"	.90
"	"	Indicating	"	1.05
Triple	"	Non-Indicating	"	2.80
"	"	Indicating	"	3.00
3-Way	125	Non-Indicating	"	.90
4-Way	250	Non-Indicating	"	1.30
Electrolier	"	Non-Indicat. 110V	"	1.35
"	"	Indicating 110V	"	1.50

ALL PORCELAIN SNAP SWITCHES				Price
Poles	Volts	Type	Size	Amp.
Single	125	Non-Indicating	Pony	.50
"	"	Indicating	"	.55
"	"	Non-Indicating	Standard	.65
"	"	Indicating	"	.70
Double	250	Non-Indicating	"	.95
"	"	Indicating	"	1.10
3-Way	125	Non-Indicating	"	.95
4-Way	125	Non-Indicating	"	1.50
Electrolier	"	Non-Indicating	"	1.55
"	"	Indicating	"	1.70

TUMBLER OR TOGGLE SNAP SWITCHES—Metal

Metal Covered				Price
125-250 Volt	Single Pole	Double Pole	3 Point	4 Point
5 Amp. Closed or Slott. Base	\$.35	\$.85	\$.80	\$1.40
10	.80	1.10	1.25	

SNAP SWITCHES FOR WOOD MOLD, CONDULETS, ETC.				Price
5 Amp. 125 Volts	Indicating	Non-Indicating	Indicating	Non-Indicating
Single Pole	\$.65	\$.60	\$.75	\$.70
Double	1.10	1.05	1.20	1.15
Three Point	1.10		1.20	
Electrolier	1.40	1.40		

PARTS FOR SNAP SWITCHES				Price
Handles—Standard Type Each	\$.12	Ratchet Type		\$.18
Bases—Porcelain 5 Amp. \$.12—10 Amp. \$.15—20 Amp.				.20
Covers—10 Amp & Under Metal \$.15—Porcelain				.20
Over 10 Amp.				.30

SWITCHES, PULL CORD, CHAIN, CANOPY, LEVOLIER, ETC.

PULL CORD SWITCHES				Price
Complete With 1/8 Cap, Small Socket Type				
With 3/8 Female Brass Cap				
Ceiling—Bottom Pull Complete				\$1.00
Wall—Side Pull				1.00
Rosette—Side Pull				1.00
Fixture—Bottom Pull				1.25
Deduct for Base only without 1/8 Brass Cap				.10
Add for 3/4 Brass Cap on any of above Switches				.20
" " " Small Concealed Base of above Switches				.25
" " " Cleat				.30
" " " Base to Fit 3/4 Box of above Switches				.55
" " " Wood Moulding Base of above Switches				1.10
" " " Angle Base				.30

HEAVY DUTY PULL CORD SWITCHES, METAL COVER With 8 Feet Heavy Cord

Price			
S.P. with Small Porc. Slotted or Solid B.			\$1.65
D.P.			1.85
3 Pole			1.85

These switches can be furnished with side or bottom open, at same price.

TYPE "O" PULL SWITCHES
For Ceiling Fixtures or Ceiling Fans
 Single or Double Pole—3 & 4 Point Electrolux & Motor Control—Similar to
 Bryant #2473 to 2480 with ½ Caps. cord & Ball Each.....\$2.00

CANOPY SWITCHES

Snap or Tumbler Canopy Switches any style any make (except below).....	Price \$.40
Pull Type P & S—3316 or 17—Arrow 340—Bryant 666.....	.95

LEVOLIER PULL SWITCHES
McGill Co.

Two-Lite Canopy or Fixture Switch #50-51-52.....	\$1.00
Link Switch #59.....	1.00
Conduit Box & Fixture Switch #61-62 & 63.....	1.00
Switch Hickey 64 & 64 A for above.....	.15

PENDANT SWITCHES

With Brass Pendant Cap

Brass Shell Pend. Cap Side Button	Price
" " " Bottom "	\$.60
" Type "O" " " .....	.80
All Porcelain " " "	1.90
(10 Amps) " " " .....	.60
	.60
	.85

FEED THROUGH SWITCHES

Nickel Feed Thru Switch.....	Price \$.50
Composition Feed Thru Switch.....	.50
Bakelite Feed Thru Switch, One Heat.....	.50
Bakelite Feed Thru Switch, Three Heat.....	.90

DOOR SWITCHES

Door Switch without Box.....	Price \$3.50
Box Extra.....	.50

DOOR SWITCHES & OPENERS

Edwards—commonly used types

#	Door Opener Mortise Type	2.75	#152 Rim Type Flush	6.10	Price
48	"	31.25	#152 for Surface Conduit	25.25	
48A	"	34.25	154 Mortise Type	5.75	
50	"	31.25	153 Plate Type	7.15	
50A	"	34.25	174 Door Switch	8.65	
51	"	34.25	Box for above #2000	1.30	
51A	"	35.25	1541 Opener Mortise Type	10.50	
52	"	38.25			
#239—Latch for #52	"	3.55			

Partrick & Wilkins commonly used types

Mortise Type.....	\$2.75	Rim Type.....	\$5.00
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SWITCHES, KNIFE, ENTRANCE & PANEL

ENTRANCE & PANEL SWITCHES
30 Amp. 125 Volts, Plug Fused

Description	Location of Fuses	Price
Double Pole	Top	\$.80
"	Bottom	.80
" " Large Size	Top	.85
"	Bottom	.85
Triple	Top	1.20
"	Bottom	1.20
Double Pole Single Branch	Top	1.30
" " " Large Type	Bottom	1.30
"	Top	1.45
"	Bottom	1.45
Double Pole—Double Branch Vert. Mains		2.90
" Horiz.		2.90
Trip. to D. P. Double Branch Vert. Mains		3.05
" Horiz. Mains		3.05

BABY KNIFE SWITCHES

Any Make		Porcelain Base 125 Volt		Slate Base 250 Volt	
		15 Amp.	30 Amp.	15 Amp.	30 Amp.
Single Pole	Single Throw	\$.50	\$.60	\$.60	\$.70
	Double	.85	1.05	1.00	1.25
Double	Single	.60	.70	.70	.85
	Double	1.05	1.30	1.25	1.50
Triple	Single	1.30	1.55	1.50	1.85
	Double	..	..	2.00	2.50

TYPE "C" KNIFE SWITCHES
Slate Base Front Connected
Trumbull-Bulldog or Similar

Front Connected Slate Base		Not Fusible			Fusible		
		2 Pole	3 Pole	4 Pole	2 Pole	3 Pole	4 Pole
Sgl. Throw	30 A. 250 V. Only . . .	\$1.15	\$1.65	\$2.25			
"	250 & 500 V. AC						
"	30 A.	1.75	2.65	.....	\$1.70	\$2.60	\$3.50
"	60 A.	2.00	3.00	4.05	2.95	4.45	5.95
"	100 A.	4.10	6.20	8.25	6.00	9.05	12.05
"	200 A.	7.45	11.15	14.85	11.10	16.70	22.25
Dbl. Throw	30 A. 250 V. Only . .	1.90	2.95	4.22	.....	.....	.....
"	250 & 500 V. AC						
"	30 A.	2.80	4.35	.....	3.60	5.80	7.95
"	60 A.	3.30	5.10	7.25	5.60	8.95	12.35
"	100 A.	7.40	11.35	16.10	12.20	19.50	26.85
"	200 A.	12.35	19.05	25.55	21.40	34.30	43.90

**SWITCHES, RESIDENCE, METER
SERVICE, INDUSTRIAL, ETC.**

SMALL SERVICE ENTRANCE SWITCHES

30 Amp. "Square D" Switches Residence Type

Numbers	Volts	Description	2 Pole	3 Pole
97211-97311	125	For Plug Fuse Solid Neut.....	\$1.65	\$2.50
99211-99311	125	Neut. Fused.....	1.65	3.00
1211-78311	125	" " Meter Test.....	2.55	4.10
1211	125	Porc. Entr. Switch.....	1.80	.....
97251-97351	250	Encl. Fused Solid Neut.....	1.65	3.20
99251-99351	250	" " Fused Neut.....	2.50	4.35

METER SERVICE SWITCHES

"Square D" Accessible Main Fuses Without End Walls

Amps. Poles		Fused For	Neutral	Meter Test Type		Non-Meter Test Type	
				Number	Price	Number	Price
30	2	2 Plug	Fused	30211	\$ 3.70	10211	\$ 3.35
30	2	1 " "	Solid	30231	3.25	10231	3.05
30	3	2 " "	" "	30331	4.15	10331	3.70
30	3	2 " "	Unfused	30381	4.85	10381	4.85
30	2	2 Enc.	Fused	30251	4.45	10251	4.25
30	2	1 " "	Solid	30271	3.60	10271	3.60
30	3	2 " "	Unfused	30361	5.40	10361	5.65
30	3	2 " "	Solid	30371	4.45	10371	4.25
60	2	2 " "	Fused	30252	16.80	10252	15.95
60	2	1 " "	Solid	30272	15.95	10272	15.05
60	3	2 " "	Unfused	30362	21.65	10362	20.55
60	3	2 " "	Solid	30372	17.70	10372	16.80
100	2	2 " "	Fused	30253	25.60	10253	24.75
100	2	1 " "	Solid	30273	25.60	10273	23.85
100	3	2 " "	Unfused	30383	30.90	10383	29.35
100	3	2 " "	Solid	30373	27.40	10373	25.90

METER SERVICE SWITCHES

"Square D" Main Fuses Sealed Without End Walls

Amps.	Poles	Fused		Meter Test Type		Non-Meter Test Type	
		For	Neutral	Number	Price	Number	Price
30	2	2 Plug	Fused	36211	\$ 3.25	16211	\$ 2.85
30	2	2 "	Solid	36231	3.25	16231	2.85
30	3	2 "		36331	3.45	16331	3.00
30	3	2 "	Unfused	36381	3.45	16381	3.45
30	2	2 Enc.	Fused	36251	3.80	16251	3.40
30	2	2 "	Solid	36271	3.50	16271	3.15
30	3	2 "	Unfused	36361	4.00	16361	4.30
30	3	2 "	Solid	36371	4.00	16371	3.55
60	2	2 "	Fused	36252	15.05	16252	14.20
60	2	2 "	Solid	36272	14.15	16272	13.30
60	3	2 "	Unfused	36362	19.00	16362	17.90
60	3	2 "	Solid	36372	15.95	16372	15.05
100	2	2 "	Fused	36253	23.85	16253	23.00
100	2	2 "	Solid	36273	23.85	16273	22.10
100	3	2 "	Unfused	36383	26.50	16383	24.75
100	3	2 "	Solid	36373	25.60	16373	23.85

MISCELLANEOUS

				Price
Enclosed Double Branch Cutout No.	3521-30	Amp.	125 Volts.....	\$2.35
Fused Plug Receptacle.....	5021-30	"	125 "	2.20
" Cartridge.....	5001-30	"	250 "	5.65
Cabinet Porcelain Fuse Block... "	1021-30	"	125 "	1.25

UNIVERSAL METER SERVICE SWITCHES

"Square D" Meter Service Types

Single Type		Ganging Type	
No. 32211 or 33211.....	\$3.45	No. 12211-13211.....	\$3.85
No. 32311.....	3.75	No. 12311.....	4.15
No. 34211.....	4.30	No. 14311.....	5.25
No. 34311.....	4.85		

METER SERVICE SWITCHES

"Square D" Without End Walls Live & Dead Fuse Type

METER TESTING

Number	Amps.	Pole	Fused	Neutral	Description	Price
55211	30	2	2	1 Plug	Single Type Fuse Dead.....	\$ 2.20
58211	30	2	2	" Solid	" " " Live.....	2.70
SK-916	30	2	2	" Fused	" " " Dead.....	2.70
55311	30	3	2	" Solid	" " " Live.....	3.45
57311	30	3	2	" Solid	" " " Dead.....	3.45
15211	30	2	2	" " Fused	Gang Type Fuse Dead.....	2.60
18211	30	2	2	" " Fused	" " " Live.....	3.10
39231	30	2	1	" " Solid	Gang Type Acces. M. Fuses	4.05
39331	30	3	2	" " Solid	Gang Type Acces. M. Fuses	4.85
15311	30	3	2	" Solid	" " " Dead.....	3.85
17311	30	3	2	" " "	" " " Live.....	3.85
					Extra for End Wall.....	.30
58251	30	2	2	Cart. Fused	Cartridge Fuse Live.....	3.05
26251	30	2	2	" " "	" " " Dead.....	3.75
57351	30	3	2	" Solid	" " " Live.....	3.75
28252	60	2	2	" Fused	" " " "	8.45
27312	60	3	2	" Solid	" " " "	8.90
14312	60	3	2	" " "	" " " Dead.....	19.80
28253	100	2	2	" Fused	" " " Live.....	15.05
27313	100	3	2	" Solid	" " " "	15.90
14313	100	3	2	" " "	" " " Dead.....	27.35

Wanted--

Contractors that are Willing to Increase Their Profits

WE are looking for a limited number of contractors in each of the principal cities that are willing to increase their profits. The ones we seek may or may not at the present time be selling electric ventilating equipment—they may have the largest electrical business in their territory, or the smallest—the only qualification we make is that they have foresight and good business judgment.

During the past three years the sales of American Blower ventilating equipment have increased at a remarkable rate. During the past three years contractors selling American Blower equipment have reported unusual sales, unusual profit records

and an unusual amount of repeat business. American Blower electric ventilating equipment has proved its merit—it has also proved a profitable line for the contractor.

The American Blower Corporation aids contractors in every way. Free merchandising helps, complete direct-by-mail advertising programs, sales, engineering and installation bulletins, window cards and a roto-gravure magazine, all imprinted for dealers, are but a few of the many services rendered. Write today for complete information on the American Blower line—signify your willingness to increase your profits.

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CANADIAN SIROCCO CO., LTD., WINDSOR, ONTARIO
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VENTILATING, HEATING, AIR CONDITIONING, DRYING, MECHANICAL DRAFT
MANUFACTURERS OF ALL TYPES OF AIR HANDLING EQUIPMENT SINCE 1906

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6000 Russell St., Detroit, Mich.

Please send me complete information about selling American Blower Ventilating Equipment.

C O U P O N

Name _____

Firm _____

Address _____

(918)

For any problem of Lighting Control— "Diamond H" Switches



Engineering and contracting firms have long recognized the value of using "Diamond H" control equipment for lighting circuits.

Any form of control that may be desired can be carried out with these switches. They are superior in design and material, accurate and dependable in operation, and are economical by saving wiring costs.

The wide range of use to which these "Diamond H" Switches may be put for all forms of lighting and special control, includes window, sign and flood lighting for buildings, airports, signal work, automatic devices, theatres, hospitals, public buildings, stadiums, railroad yards and terminals.

If there is a problem of automatic or manual control of lighting or special circuits, we can solve it.

Send for new Bulletin No. 10, just off the press and all about "Diamond H" Remote Control Switches

THE HART MANUFACTURING CO.
HARTFORD, CONN.

BOSTON	NEW YORK	PHILADELPHIA	DETROIT	CHICAGO
	MINNEAPOLIS	SAN FRANCISCO	TORONTO	

DIAMOND H SWITCHES

Vertical Too



As part of a complete industrial power service, Wagner Motors of various types are furnished in vertical design with a variety of mountings to suit many special conditions of applications. Power satisfaction comes from fitting the motor to the job and that is why Wagner makes every commercial type of alternating-current motor.



Wagner, Quality



In the Wagner line there is a Motor that fits your job both electrically and mechanically. Consult our engineers.

Literature on Request

WAGNER ELECTRIC CORPORATION

6400 Plymouth Ave., St. Louis

Sales and Service in 25 Principal Cities

PRODUCTS . . . FANS . . . DESK . . . WALL . . . CEILING
TRANSFORMERS . . . POWER . . . DISTRIBUTION . . . INSTRUMENT
MOTORS . . . SINGLE-PHASE . . . POLYPHASE . . . DIRECT CURRENT



TRIAD Tube Plant equipped with Wheeler Reflectors



Few products require greater accuracy in manufacture than radio tubes. The infinite care necessary for their production requires, above all, light that is scientifically correct—to assure precision when daylight fails. The engineers of the Triad Manufacturing Company, Pawtucket, Rhode Island, makers of Triad Radio Tubes, found in Wheeler Lighting Equipment the answer to their illumination problems. The modern, patented features that characterize



Wheeler Duratach R.L.M. Reflectors. A new and modern development for Industrial Illumination.

Wheeler Reflectors best upheld the standards of Quality, Service and Durability by which their own products are measured. This instance is typical of numberless others throughout the country's industries where the superiority of Wheeler Lighting has been instantly recognized and preferred. At no obligation to you, Wheeler Engineers will gladly cooperate in the solution of any difficult lighting problems which you may encounter.

WHEELER REFLECTOR CO., BOSTON, MASS.

NEW YORK

ATLANTA

CLEVELAND

Sales Offices: St. Louis, Indianapolis, Los Angeles, San Francisco, Seattle; In Canada: Canadian General Electric Co., Ltd.

METER SERVICE SWITCHES—Continued

NON-METER TEST TYPE

Number	Amps.	Pole	Fused	Neutral	Description	Price
26311	30	3	2 Plug	Solid	Plug Type Fuse Dead.....	\$ 2.40
26351	30	3	2 Cart.	"	Cart. Type Fuse Dead.....	3.75
SK-615	30	3	2 Plug	Switched	Plug Type Fuse Dead.....	4.30
SK-659	30	3	2 Cart.	"	Cart. Type Fuse Dead.....	4.30
SK-660	60	3	2 "	"	Cart. Type Fuse Dead.....	11.70
SK-674	100	3	2 "	"	Cart. Type Fuse Dead.....	19.20

POLYPHASE METER SERVICE SWITCHES

"Square D" Accessible Main Fuse Type

METER TEST TYPE	Number	Amp.	Pole	Fused	Price
30391	30	3	3 Cart.		\$ 9.90
30392	60	3	3 "		20.35
30393	100	3	3 "		30.00

NON METER TEST

Number	Amp.	Pole	Fused	Price
10391	30	3	3 Cart.	\$ 9.30
10392	60	3	3 "	18.60
10393	100	3	3 "	28.25

"Square D" Sealable Main Fuses

METER TEST TYPE	Number	Amp.	Pole	Fused	Price
36351	30	3	3 Cart.		\$ 9.20
36352	60	3	3 "		17.80
36393	100	3	3 "		26.50

NON METER TEST

Number	Amp.	Pole	Fused	Price
SK-671	30	3	3 Cart.	\$ 4.30
SK-672	60	3	3 "	11.70
SK-673	100	3	3 "	19.20

FITTINGS FOR STANDARDIZED SWITCHES

	Price
End Walls for 30 Amp. Switches.....	\$ 3.30
60 & 100 Amp. Switches.....	.80
Trough Closing Plates No. 20533 & 34.....	.10
Connecting Trough No. 20733-3/4" Long.....	.45
20738-8/4".....	.80
Universal End Wall & Shutters.....	.30
Meter Shutter only No. 24358.....	.15

TYPE C

"Square D" Single Throw, Industrial Switches
Quick Break Only

250 Volts Fusible			250V. DC & 500V. AC Fused & Unfused		
Amps.	2 Pole	3 Pole	Amps.	2 Pole	3 Pole
30	#85251 \$ 3.20	#85351 \$ 5.20	30	500 Volt Fused	#46341 \$ 8.65
60	#46252 \$ 8.20	#46352 10.00	60	#1242 \$ 8.20	#41342 8.65
60	Solid Neutral	#47312 9.10	60	500 Volt Fused	#46342 10.95
100	#45253 \$12.75	#45353 15.50	100	#1243 \$10.95	#41343 12.30
100	Solid Neutral	#48313 14.60	100	500 Volt Fused	#46343 17.30
200	#46254 20.00	#46354 26.40	200	#1244 \$19.10	#41344 22.75
200	Solid Neutral	#47314 22.75	200	500 Volt Fused	#46344 22.80

TYPE A

"Square D", Industrial Quick Make & Break, Single Throw

250 Volts Fusible				250-500 & 600 Volts Unfusible			
Amps.	2 Pole	3 Pole	Amps.	2 Pole	3 Pole	Amps.	2 Pole
x30	#80251 \$10.90	#80351 \$12.75	x30-60	#81252 \$ 9.55	#81352 \$11.40	30	#81252 \$ 9.55
60	#86252 13.65	#86352 17.30	30-60	#81242 11.85	#81342 14.60	60	#81242 11.85
100	#86253 20.90	#86353 22.30	100	#81243 20.00	#81343 21.85	100	#81243 20.00
200	#86254 32.75	#86354 36.40	200	#81244 25.50	#81344 30.95	200	#81244 25.50

x60 Amp. Sw. with 30 Amp. Spacing

(x-250 Volts only).

30 AMP. TYPE C

"Square D", Industrial, Single Throw

250 Volts				Single Throw			
No.	2 Pole	Description	No.	3 Pole	Price	No.	3 Pole
83251	\$3.20	Quick Make & Break	83351	\$ 5.20		83351	\$ 5.20
91251	2.65	Not Quick Break	91351	4.00		91351	4.00
x90251	7.75	Quick Break Only	x90351	10.00		x90351	10.00

(x 60 Amp. Switches with 30 Amp. Clips).

MOTOR STARTERS

"Square D", Quick Make & Break, Single Throw

Numbers & Types		Amps.	Volts	2 Pole	3 Pole	4 Pole
76251-351-451	Cover Control.....	30	250 V.	\$15.50	\$16.40	\$22.75
76352-76452	"	60	250 V.		22.75	31.75
76341-76441	"	30	500-600 V.		22.75	31.75
76942	"	60	500-600 V.		32.75	
69251-351-451	without Cover Cont.....	30	250 V.	13.65	14.60	20.95
69352-69452	"	60	250 V.		20.95	30.00
69341-69441	"	30	500-600 V.		20.95	30.00
69342	"	60	500-600 V.		31.00	
75251-351	Time Protective.....	30	250 V.	6.40	6.85	
75341 & SK2054	Time Protective.....	30	500-600 V.		11.80	13.65
No. 98251 For Small AC & DC Motors up to 3/4 H. P. 220 Volts AC..					Ac.	\$1.85

TYPE "C" SWITCHES

Cutler-Hammer (T-V) Single Throw Industrial Type
Series 4131

250 Volts DC or AC Fusible				500-600 Volts AC Fusible			
Amps.	2 Pole	3 Pole	Amps.	2 Pole	3 Pole	Amps.	2 Pole
30	4131H2 \$ 3.15	4131H13 \$ 5.15	30	4131H7 \$ 8.55	4131H24 \$ 9.00	60	4131H3 \$ 8.10
60	4131H3 8.10	4131H14 9.90	60	4131H8 9.90	4131H25 10.80	100	4131H4 12.60
100	4131H4 12.60	4131H15 15.30	100	4131H9 14.40	4131H26 17.10	200	4131H5 19.80
200	4131H5 19.80	4131H16 26.10	200	4131H10 29.80	4131H27 32.40	400	4131H6 48.60
400	4131H6 48.60	4131H17 66.60	400	4131H11 64.80	4131H28 81.00		

125-250 Volt Solid Neut. Fusible				Non-Fusible Type 250 DC 500-600 AC			
Amps.	3 Pole	4 Pole	Amps.	2 Pole	3 Pole	Amps.	2 Pole
30	4131H39 \$ 6.70	4131H44 \$ 8.10	x30	4131H54 \$ 3.15	4131H58 \$ 4.05	30	4131H39 \$ 6.70
60	4131H40 9.00	4131H45 11.25	60	4131H55 8.10	4131H59 8.55	60	4131H40 9.00
100	4131H41 14.40	4131H46 20.25	100	4131H56 10.80	4131H60 12.15	100	4131H41 14.40
200	4131H42 22.50	4131H47 31.50	200	4131H57 18.90	4131H61 22.50	200	4131H42 22.50
400	4131H43 63.00	4131H48 81.00	x30 Amp 250 Volts Only			400	4131H43 63.00

ENTRANCE SWITCHES, LIGHT TYPE

Cutler-Hammer (T-V)

2 Pole				3 Pole			
Amps.	Description	Numbers	Price	Numbers	Price	Amps.	Description
30	For Plug Fuses.....	4141H1&2	\$ 1.65	4141H3-4	\$ 2.90	30	For Plug Fuses.....
30	2 Blades -2 Fuses.....	4141H5	1.80	4141H5	2.25	30	For Cartridge Fuses.....
30	For Cartridge Fuses.....	4141H6&8	1.80	4141H9-10	3.55	30	For Cartridge Fuses.....
30	For 2 Cart. Blades-2 Fuses..	H4141H7	2.70	4141H11	3.25	30	For 2 Cart. Blades-2 Fuses..
30	Non-Fusible.....	4141H23	2.35	4141H12	4.15	30	Non-Fusible.....
60	For Cartridge Fuses.....	4141H13	6.65	4141H13-15	7.75	60	For Cartridge Fuses.....
60	For 2 Blades & 2 Fuses.....	4141H16	7.40	4141H16	7.40	60	For 2 Blades & 2 Fuses.....
100	For Cartridge Fuses.....	4141H18	10.20	4141H19-20	12.55	100	For Cartridge Fuses.....
100	For 2 Blades & 2 Fuses.....	4141H21	11.80	4141H21	11.80	100	For 2 Blades & 2 Fuses.....

METER SERVICE SWITCHES

Cutler-Hammer (T-V) Without End Walls

Live Fuse Type				Without End Walls			
Meter Test Type	Live Fuse Type	Without End Walls	Meter Test Type	Live Fuse Type	Without End Walls	Meter Test Type	Live Fuse Type
30	For Plug Fuses.....	4307H1&5 \$ 2.75	4307H9	\$ 3.45	30	For Plug Fuses.....	4307H1&5 \$ 2.75
30	For Cartridge Fuses.....	4307H2&6 3.05	4307H10	3.75	30	For Cartridge Fuses.....	4307H2&6 3.05
60	For Cartridge Fuses.....	4307H3&7 8.45	4307H11	9.70	60	For Cartridge Fuses.....	4307H3&7 8.45
100	For Cartridge Fuses.....	4307H4&8 15.05	4307H12	16.00	100	For Cartridge Fuses.....	4307H4&8 15.05
Dead Fuse Type				Without End Walls			
30	For Plug Fuses.....	4309H1	2.20	4309H3	3.45	30	For Plug Fuses.....
30	For Cartridge Fuses.....	4309H4	3.50	4309H6	4.00	30	For Cartridge Fuses.....
60	For Cartridge Fuses.....	4309H8	15.05	4309H9	16.00	60	For Cartridge Fuses.....
100	For Cartridge Fuses.....	4309H10&11 23.95	4309H12	25.70	100	For Cartridge Fuses.....	4309H10&11 23.95

SAFE-LOCK METER SERVICE SWITCHES

Cutler-Hammer (T-V) Without End Walls

Accessible Main Fuses				Without End Walls			
Meter Test Type	Accessible Main Fuses	Without End Walls	Meter Test Type	Accessible Main Fuses	Without End Walls	Meter Test Type	Accessible Main Fuses
30	For Plug Fuses.....	4325H1&2 \$ 3.70	4325H3	\$ 4.20	30	For Plug Fuses.....	4325H1&2 \$ 3.70
30	For Cartridge Fuses.....	4325H4&5 4.50	4325H6	4.50	30	For Cartridge Fuses.....	4325H4&5 4.50
60	For Cartridge Fuses.....	4325H7&8 16.80	4325H9	17.70	60	For Cartridge Fuses.....	4325H7&8 16.80
100	For Cartridge Fuses.....	4325H10&11 25.60	4325H12	27.40	100	For Cartridge Fuses.....	4325H10&11 25.60
Non-Test Type				Without End Walls			
30	For Plug Fuses.....	4327H1&2 3.40	4327H3	3.70	30	For Plug Fuses.....	4327H1&2 3.40
30	For Cartridge Fuses.....	4327H4&5 4.25	4327H6	4.25	30	For Cartridge Fuses.....	4327H4&5 4.25
60	For Cartridge Fuses.....	4327H7&8 16.00	4327H9	16.90	60	For Cartridge Fuses.....	4327H7&8 16.00
100	For Cartridge Fuses.....	4327H10&11 24.75	4327H12	25.65	100	For Cartridge Fuses.....	4327H10&11 24.75

POLYPHASE METER SERVICE SWITCHES

Style & Numbers				End Walls				30 A. 60 A. 100 A.			
Meter Test Sealed Fuse Type No.	4315H1-2-3	Yes	\$9.50	\$17.60	\$27.30	Meter Test Sealed Fuse Type No.	4329H18-19-20	No	9.95	20.35	30.00
Meter Test Accessible Fuse Type No.	4329H25-					Non-Meter Test Accessible Fuse Type No.	4329H25-				
26-27	No	9.35	18.60	28.25							

UNIVERSAL METER SERVICE SWITCHES

Cutler-Hammer (T-V)

No.	Without End Walls	Price
4311H1	\$3.45
4311H2	3.75
4311H3	4.30
4311H4 & 5	4.80
For Detailed Description See Cutler Hammer (Trumbull Vanderpoel) Catalog.		

For Detailed Description See Cutler Hammer (Trumbull Vanderpoel) Catalog.

TROUGHES

Cutler-Hammer (T-V)

2-3 & 4"	5"	7"	9"	10"
45c	50c	62c	80c	88c

SHUTTERS END WALLS

Cutler-Hammer (T-V)

Single Piece End Wall used with Cabinet.....				30 Amp. 60 & 100 Amp.			
No.	Single Piece End Wall used with Cabinet.....	30 Amp. 60 & 100 Amp.	No.	Single Piece End Wall used with Cabinet.....	30 Amp. 60 & 100 Amp.	No.	Single Piece End Wall used with Cabinet.....
Shutters for Shutter Type End Wall.....		15	Shutters for Shutter Type End Wall.....		15	Shutters for Shutter Type End Wall.....	
Conduit End Wall.....		30	Conduit End Wall.....		30	Conduit End Wall.....	
Universal End Wall.....		40	Universal End Wall.....		40	Universal End Wall.....	

TYPE "A" SWITCHES

Single Throw—Series 4111

Fusible 250 Volt DC or AC				Fusible 500-600 Volts AC			
Amps.	2 Pole	3 Pole		Amps	2 Pole	3 Pole	
30	4111H1 \$10.80	4111H20 \$12.60		30	4111H11 \$14.40	4111H30 \$18.00	
60	4111H2 13.50	4111H21 17.10		60	4111H12 16.20	4111H31 18.90	
100	4111H3 20.70	4111H22 27.00		100	4111H13 25.20	4111H32 28.80	
200	4111H4 32.40	4111H23 36.00		200	4111H14 30.60	4111H33 45.00	
400	4111H5 63.00	4111H24 51.00		400	4111H15 73.80	4111H34 88.20	
				Non-Fusible 250 DC or 500-600 AC			
				Amps	2 Pole	3 Pole	
				30	4111H74 \$ 9.45	4111H84 \$11.25	
				60	4111H75 11.70	4111H85 14.60	
				100	4111H76 19.80	4111H86 22.60	
				200	4111H77 25.20	4111H87 30.60	
				400	4111H78 54.00	4111H88 63.00	
Solid Neutral							
3 Pole Switches with Solid Neutral							
No Extra Charge							

MOTOR STARTING SWITCHES

Manual Operated

T-V

Series	Description	Amps	Volts	2 Pole	3 Pole	4 Pole
4151H1	Light Duty Motor Sw. 1/4HP or Less	30	125	\$ 1.65	.....	.....
9115H3	Motor Switch with Thermal Cutout	30	To 550	.....	\$13.75	\$19.10
4231H	For infrequent Duty	30	220	8.10	9.95	12.85
4246H	For infrequent Duty 6 HP.	30	220	12.45	13.05	16.50
4246H	For infrequent Duty 7 1/2 HP	30	440	19.45	23.40	26.55
4246H	For infrequent Duty 7 1/2 HP	60	220	17.10	19.45	26.55
4256	Motor Reversing Sw. Dble. Throw	30	250	13.95	18.90	24.75
4256	Motor Reversing Sw. Dble. Throw	60	250	17.55	22.05	32.40
4256	Motor Reversing Sw. Dble. Throw	100	250	29.25	37.35	64.80

SMALL ENTRANCE SWITCHES

Trumbull Electric Closed or Open Ends

Numbers	Amps	Volts	Fusing	2 Pole	3 Pole
5790 EW Porc Base	30	125	For 1 Plug Fuse	\$1.65	.....
5791-2-3-4 & 5893	30	125	" Plug Fuses	1.85	\$3.45
5891-5892 Porc. Base	30	125-250	" " "	1.85	2.40
13640-13641 Kappa	30	250	No Fuse-Slate Base	2.75	4.10
13642-43 & 15745	30	250	For Enclosed Fuses	2.75	4.35
13221-13321 Quick Break	30	250	" " "	3.55	5.20

"DO-ALL" MAIN ENTRANCE SWITCHES

Trumbull Electric Non Meter Test Solid End Wall

16361 to 16368	30	125-250	For Plug Fuses	\$2.70	\$3.45
16371 " 16378	30	"	" Enclosed Fuses	3.05	3.75
16381 " 16388	60	250	" " "	8.45	8.90
16391 " 16398	100	250	" " "	15.05	15.95

"DO-ALL" METER SERVICE SWITCHES

Trumbull Electric For Meters Open End

16300 to 16309	30	125-250	For Plug Fuses	\$ 2.70	\$ 3.45
16315 " 16324	30	"	" Enclosed Fuses	3.05	3.75
16330 " 16338	60	"	" " "	8.45	8.90
16341 " 16348	100	"	" " "	15.05	15.95

ACCESSIBLE FUSE METER SWITCHES

Trumbull Electric With Test Blades Without End Walls

18111	30	125	For 1 Plug Fuse	\$ 3.25	.....
18211-18311	30	125	" Plug Fuses	3.70	\$4.20
18121	30	125-250	" 1 Enclosed Fuse	3.60	.....
18221-18321	30	"	" Enclosed Fuses	4.45	4.45
18122-222-322	60	"	" " "	16.80	17.70
18123-223-323	100	"	" " "	25.60	27.50

Without End Walls and Without Test Blades

19111	30	125	For 1 Plug Fuse	\$ 3.05	.....
19211-19311	30	125-250	" Plug Fuses	3.35	\$3.70
19121	30	"	" 1 Enclosed Fuse	3.60	.....
19221-19321	30	"	" Enclosed Fuses	4.25	4.25
19122-222-322	60	"	" " "	15.95	16.80
19123-223-323	100	"	" " "	24.75	25.60

SEALED FUSE METER SWITCHES

Trumbull Electric With Test Blades Without End Walls

15627	30	125	For 1 Plug Fuse	\$ 2.20	.....
28111-28211-28311	30	125	" Plug Fuses	3.25	\$ 3.45
28121	30	125	" 1 Enclosed Fuse	3.50	.....
28221-28321	30	125-250	" Enclosed Fuses	3.75	4.00
28122-28222-28322	60	"	" " "	15.05	15.95
28123-223-323	100	"	" " "	23.85	25.60
Without Test Blades					
29111	30	125	For 1 Plug Fuse	\$ 2.85	.....
29211-29311	30	125-250	" Plug Fuses	2.85	\$ 3.00
29121	30	125	" 1 Enclosed Fuse	3.15	.....
29221-29321	30	250	" Enclosed Fuses	3.40	3.55
29122-222 & 322	60	250	" Enclosed Fuses	14.15	15.05
29123-223 & 323	60	250	" Enclosed Fuses	22.95	23.85

UNIVERSAL METER SERVICE SWITCHES

Trumbull Electric Without End Walls

1971-123	30	125	For 1 Plug Fuse	\$3.45	.....
972-123	30	125	For 1 Plug Fuse	4.30	.....
973-333	30	125	For 2 Plug " Solid Neu.	.....	\$3.75
975-333	30	125	For 3 Combinations	4.85	4.85
979-333	30	125	For 4 Combinations	4.85	4.85

POLYPHASE METER SWITCHES

Trumbull Electric

Series Nos.	Style	30 Amp.	60 Amp.
15321-15623	Acc. Fuse—Test Conn.	\$11.60	\$15.60
17321-17623	Acc. Fuse without Test Conn.	10.95	11.60
26321-26623	Sealed Fuse with Test Conn.	10.40	14.00
931233-61-31	No End Wall—Page 50	12.15	.....
			16.65
Series Nos.	Style	100 Amp.	150 Amp.
15321-15623	Acc. Fuse—Test Conn.	\$30.80	\$53.70
17321-17623	Acc. Fuse without Test Conn.	29.05	30.80
26321-26623	Sealed Fuse with Test Conn.	27.30	50.15
931233-61-31	No End Wall—Page 50	26.15	.....

END WALLS, SHUTTERS, TROUGHS, ETC.

Trumbull Electric

	30 A.	60 A.	100 A.
End Wall One Piece for Standardized Switches	\$.30	\$.70	\$.70
End Wall One Piece for Polyphase Switches	.40	1.00	1.15
Shutters for End Walls for Standardized Switches	.15	.30	.30
Shutters for End Walls for Polyphase Switches	.30	.....	.....
Troughs 2-3" & 4....	\$.40	\$.45	\$.50
	5".....	6".....	7".....

TYPE "A" SWITCHES

Trumbull Electric Single Throw, Quick Make & Break

Amps.	2 Pole	3 Pole	2 Pole	3 Pole
30.....	#72221 \$10.80	#72321 \$12.60	#36221 \$ 9.45	#36321 \$11.25
60.....	72222 13.50	72322 17.10	.....	.....
100.....	72223 20.70	72323 27.00	.....	.....
200.....	72224 32.40	72324 36.00	.....	.....
	250 Volts Fusible	250 Volts Unfused		
30.....	#72251 \$14.40	#72351 \$18.00	#36251 \$10.70	#36351 \$13.95
60.....	72252 16.20	72352 18.90	36252 10.70	36352 14.40
100.....	72253 25.20	72353 28.80	36253 19.90	36353 21.60
200.....	72254 39.60	72354 45.00	36254 25.25	36354 30.60

TYPE "C" SWITCHES

Trumbull Electric Single Throw, Quick Break Only

Amps.	2 Pole	3 Pole	2 Pole	3 Pole
30.....	#40221 \$ 5.40	#40321 \$ 6.75	#20221 \$ 4.95	#20321 \$ 6.30
60.....	40222 8.10	40322 9.90	.....	.....
100.....	40223 12.60	40323 15.30	.....	.....
200.....	40224 19.80	40324 24.60	.....	.....
	250 Volts AC Fusible	250-500 Volts Unfused		
30.....	#40251 \$ 9.00	#40351 \$ 8.55	#20251 \$ 7.65	#20351 \$ 8.10
60.....	40252 9.90	40352 10.80	20252 8.10	20352 8.55
100.....	40253 14.40	40353 17.10	20253 10.80	20353 12.15
200.....	40254 28.80	40354 32.40	20254 18.90	20354 22.80

SMALL 30 AMP. MIDGET & TYPE "OO"

Westinghouse Residence Type

	2 Pole	3 Pole
Midget-Solid Neutral-1 Blade-1 Fuse 62612 & 62613	\$1.65	.....
Type OO Fusible For Plug Fuses 125-250 V.	#60969 1.85	#60961 \$3.00
" " Fusible Solid Neut. For Plug Fuses 125-250 Volts	#60091 1.75	#62328 2.70
" " Fusible Solid Neut. For Plug Fuses 3 Blades	.....	#60962 3.00
" " Non-Fusible 2 Blades 250 Volt	#60090 2.55	#62352 2.70
" " Non-Fusible 3 Blades 250 Volt	.....	#62365 4.00
" " Fusible For Cart. Fuses 250 Volt	#60099 2.45	#62363 4.30
" " Fusible For Cart. Fuses Solid Neut.	.....	#62351 3.15
" " Fusible For Cart. Fuses 3 Blade Solid Neutral	.....	#62364 4.30
Type WK-45 Fusible For Cart. Fuses 3 Blade 250 Volt	.....	#545101 5.25
Type WK-45 Solid Neut. Cart. Fuses 250 V.	.....	#545341 5.20
Type WK-45 Non-Fusible Cart. Fuses 250 V.	.....	#545001 4.15

METER SERVICE SWITCHES

Westinghouse Type "WK-54" Without End Walls

Amps.	Fused	2 Pole	3 Pole	2 Pole	3 Pole
30	For	No.	Price	No.	Price
30	Plug	61140	\$ 2.20	60224	\$ 2.70
30	"	61143	3.25	61142	\$3.45
30	Enclosed	61639	3.50	59441	2.70
30	"	61145	3.75	61144	4.00
60	"	61150	15.05	61151	16.00
100	"	61152	23.85	61153	25.50
				59463	15.05
				60222	3.45
				60227	3.75
				59448	3.75
				60229	8.90
				60232	15.95

POLYPHASE METER SWITCHES

Westinghouse "WK-54"

30 Amp. No.	60997 With End Wall \$11.50	No. 60266 Less End Wall \$11.00
60	" " 60998 " " 17.50	" " 60267 " " 16.50
100	" " 60999 " " 27.50	" " 60268 " " 26.00

ACCESSIBLE FUSE TYPE

Westinghouse "WK-65" Without End Walls

Amps.	Fused	2 Pole	3 Pole	2 Pole	3 Pole
30	For	No.	Price	No.	Price
30	Plug	65000	\$ 3.25	65010	\$ 3.05
30	"	65001	3.70	65002	\$4.15
30	Enclosed	65055	3.60	65011	3.35
30	"	65003	4.45	65004	4.45
60	"	65005	16.80	65006	17.70
100	"	65007	25.60	65008	27.40
				65013	4.25
				65015	15.95
				65016	16.80
				65017	24.75
				65018	25.60

POLYPHASE ACCESSIBLE METER SWITCHES

Westinghouse "WK-65"

30 Amp. 3 Pole without End Wall	Meter Test Type	No. 65100 \$11.20	No. 65103 \$10.55
60 " " " " "	"	No. 65101 20.35	No. 65104 18.60
100 " " " " "	"	No. 65102 30.00	No. 65105 28.15

UNIVERSAL

Westinghouse "WK-57" Meter Service Switches Without End Walls. Sealed Main Fuses.

All 30 Amp. 125 Volt Standardized	For Full Details See Westinghouse Switch Catalog #282	#57924.....	\$3.45
		57925.....	4.65
		57926.....	3.75
		57928.....	5.20
		57931.....	5.20

Switches

Westinghouse

		30 Amp.	60 & 100 Amp.
One Piece Meter Trims.....		\$0.30	\$0.50
Blank End Wall or Shutter Type End Wall.....		.30	.50
Shutter Type Meter Trim or Adaptor Trim.....		.15	.30
New Universal Trim with slide.....		.30	.50
Replacement Plate of Adaptors.....		.15	.30
Wiring Trough—2-3 & 4 long.....	\$0.40 5' .45 6' .50 7' .55 8' .60		
Fuse Receptacle #R57252.....			Less Fuses, \$1.25

Industrial Westinghouse "WK-62" Type "C"

250 Volts Fusible				500 Volts AC Fusible			
Amps.	2 Pole	3 Pole		2 Pole	3 Pole		
30.....	#62100 \$ 5.40	#62101 \$ 6.75		#62200 \$ 9.00	#62201 \$ 8.55		
60.....	#62103 8.10	#62104 9.90		#62203 9.10	#62204 10.80		
100.....	#62106 12.60	#62107 15.30		#62206 14.40	#62207 17.10		
200.....	#62109 19.80	#62110 26.10		#62209 28.80	#62210 32.40		

250-500 Volts Non-Fusible				600 Volts Non-Fusible			
Amps.	2 Pole	3 Pole		3 Pole	4 Pole		
30.....	#62047 \$ 7.65	#62048 \$ 8.55		#62054 \$13.05	#62055 \$18.90		
60.....	#62013 8.10	#62014 8.55					
100.....	#62016 10.80	#62017 12.15		#62057 17.10	#62058 26.10		
200.....	#62019 18.90	#62020 22.50		#62060 27.90	#62061 44.10		

250 Volts		Fusible		500 Volts		AC Fusible	
Amps.	2 Pole	3 Pole		2 Pole	3 Pole		
30	#66100 \$10.80	#66101 \$12.60		#66154 \$14.40	#66155 \$18.00		
60	#66103 13.50	#66104 17.10		#66157 16.20	#66158 18.90		
100	#66106 20.70	#66107 27.00		#66160 25.20	#66161 28.80		
200	#66109 32.40	#66110 36.00		#66163 39.60	#66164 45.00		

250-500 Volts		Non-Fusible		600 Volts		Non-Fusible	
Amps.	2 Pole	3 Pole		3 Pole	4 Pole		
30	#66050 \$11.70	#66051 \$13.95					
60	#66053 11.70	#66054 14.40		#66048 \$17.10	#66049 \$21.60		
100	#66133 19.80	#66134 21.60		#66057 24.75	#66058 32.40		
200	#66136 25.20	#66137 30.60		#66060 33.30	#66061 46.80		

Noark Closed Ends

Numbers	Amps.	Volts	Fused For	2 Pole	3 Pole
8283.....	30	125	For Plug Fuses.....	\$1.65	.....
8383-8483-8309....	30	125	" " " "	1.80	\$2.50
8683-8693.....	30	125	" " " Quick Break.	2.75	3.20

Noark Sealed Service SECO Without End Walls

Amps.	Fused For	Test Type				Non Test Type			
		2 Pole		3 Pole		2 Pole		3 Pole	
		No.	Price	No.	Price	No.	Price	No.	Price
30A	Plug.....	9543	\$3.25	9523	\$4.45	8543	\$2.85	8523	\$3.00
30A	Enclosed.....	9543	3.75	9533	4.00	8563	3.40	8533	3.55
60A	Plug & Enc.....	9573	15.05	9536	15.95	8576	14.20	8536	14.40
60A	Enclosed.....	9566	15.05	9536	15.95	8566	14.20	8536	15.05
60A	".....	9576	14.15			8576	23.30		
100A	".....	9561	23.85	9531	25.60	8561	23.00	8531	23.85

Noark Accessible Service ACCO Without End Walls

Amps.	Fused For	Test Type				Non Test Type			
		2 Pole		3 Pole		2 Pole		3 Pole	
		No.	Price	No.	Price	No.	Price	No.	Price
30A	Plug.....	9343	\$3.65			8343	\$3.35		
30A	".....	9353	3.95	9323	\$4.45	8353	3.65	8323	\$3.95
30A	Enclosed.....	9363	4.85	9333	4.85	8363	4.55	8333	4.55
60A	".....	9366	16.80	9336	17.70	8366	15.95	8336	16.80
100A	".....	9361	25.60	9331	27.40	8361	24.75	8331	25.60

Noark Universal Without End Plates

	No. 971123	—Without End Walls.....	\$3.45
	" 9723	" " " "	4.65
	" 972123	" " " "	4.30
	" 973333	" " " "	3.75
	" 9753 & 9793	" " " "	5.20
	" 975333-979333	" " " "	4.85

For Detailed Description, see Noark Catalog

Noark Doall Without End Plate

		2 Pole		3 Pole	
Amps.	Fused For	Numbers	Price	Numbers	Price
30A	Plug.....	913123-911123	\$ 2.70	912333-914333	\$ 3.45
30A	Enclosed.....	923123-921223	3.05	922333-924333	3.75
60A	".....	923126-921226	8.45	925336	8.90
100A	".....	923121-921221	15.05	925331	15.95

Noark Fusible

Amps.	250 Volts Fusible			500 Volts AC Fusible				
	No.	2 Pole	3 Pole	No.	2 Pole	3 Pole	Price	
30	8223	\$ 4.50	8233	\$ 5.05	8423	\$ 9.00	8433	\$ 8.55
60	8226	8.10	8236	9.90	8426	9.90	8436	10.80
100	8221	12.60	8231	15.30	8421	14.40	8431	17.10
200	8222	19.80	8232	26.10	8422	28.80	8432	32.40
400	8234	48.60	8234	66.10	.....	.....	.....	.....

Noark Not-Fusible—Quick Break

Amps.	Volts	No.	Price	No.	Price	No.	Price
			2 Pole		3 Pole		4 Pole
30	250	8723	\$ 2.70	8733	\$ 4.05	8743	\$ 8.10
30	500 AC	8623	7.65	8633	8.10	8643	10.80
60	250-500	8626	8.10	8636	8.55	8646	13.50
100	250-500	8621	10.80	8631	12.15	8641	20.70
200	250-500	8622	18.90	8632	22.50	8642	37.80
400	250-500	8624	39.60	8634	54.00	8644	86.40

Single Piece End Wall for 30 Amp. Switches.....	\$.30	For 60 & 100 Amp.....	\$.80
Shutter for 3015	For 60 & 10030
Universal End Wall No. 909103.....	.40		
Blanking Side No. 908103-908203.....	.15		
Trough-3-4 & 5" \$.40-6" \$.45-7".....	.60	8"-\$.55-9".....	.80
Cabinet Fuse Block No. 902413.....	1.25		

Noark Switches Without End Walls

125-250 Volts		Main Entrance			
"Doall" & 3 Wire		"Acco" Quad Break		"Seco" Quad Break	
Amps.	No.	Price	Accessible Fuses	Price	Sealed Fuses
30A.....	851233	\$ 4.70	77033	\$10.50	77533
60A.....	851236	\$ 11.70	77036	18.60	77536
100A.....	851231	19.20	77031	28.25	77531
Meter Service					
30A.....	931233	\$11.05	67033	\$11.15	67533
60A.....	931236	16.65	67036	20.35	67536
100A.....	931231	26.15	67031	30.00	67531

Noark Doall Without End Walls

Amps.	Fused For	2 Pole Numbers	Price	3 Pole Numbers	Price
30	Plug Fuses	813123-811123	\$ 2.70	812333-814333	\$ 3.45
30	Enclosed Fuses	853123-851223	3.75	852333-854333	4.30
60	"	853126-851226	8.45	855336	8.90
100	"	853121-851221	15.05	855331	15.95

Noark Fusible—Quick Break

Amps.	Volts	3 Pole-2 Poles		4 Pole-3 Poles		5 Pole-4 Poles	
		No.	Price	No.	Price	No.	Price
30	125-250	8133	\$ 4.95	8143	\$ 8.10	8153	\$ 9.00
60	" "	8136	9.00	8146	11.25	8156	19.80
100	" "	8131	14.40	8141	19.80	8151	35.55
200	" "	8132	22.50	8142	31.50	8152	50.40
400	" "	8134	63.00	8144	81.00	8154	120.60

Bulldog

125 V.-2 Pole-One Blade	No. 111 & 211	BT-TE-TF & TM	\$ 1.80
" 2 "	Two "	TE-211S	4.50
" 3 "	Three "	TE-311B	5.00
" 3 "	Three "	TE-311S	8.10
" 3 "	Three "	TE-311SG	7.20
250 " 2 "	Two "	TF-221S	5.40
" 3 "	Three "	TF-321S	8.10
" 3 "	Three "	TF-321SG	7.65
500-600 V.-3 Pole-Three Blade 3 Fuse Conn.		TF-351S	12.60
250-600 " 2 "	Two "	TN-261S	5.40
" 3 "	Three "	TN-361S	7.20
" 3 "	Three "	TN-361SR	10.80
Motor Starter	3 " TJM-321S & TJM-321SU		9.00

Bulldog Single Throw Fusible Quick Make & Break

250 Volts DC & AC			
Amps.		2 Pole	3 Pole
30 125 Volt only	JF211S	\$ 2.70	JF311S \$ 4.40
30 Porc. Base	JF221S	3.15	JF321S 5.15
30 End Plates	JF221P	3.15	JF321P 5.15
60 Slate Base	JF221	5.40	JF322 9.90
100 " " "	JF222	8.00	JF323 15.30
200 " " "	JF223	12.60	JF324 28.10
400 " " "	JF224	19.80	SF325 60.60
	SF225	49.50	

500-600 Volts A. C.

Amps.	3 Pole	4 Pole
30 125 Volt only.....	.....	.....
30 Porc. Base.....	.....	.....
30 End Plates.....	.....	.....
30 Slate Base.....	.....	.....
60 " " " " " "	JF351 \$ 8.50	JF451 \$ 13.60
100 " " " " " "	JF352 10.80	JF452 14.40
160 " " " " " "	JF353 17.00	JF453 20.80
200 " " " " " "	JF354 32.40	JF454 46.80
400 " " " " " "	SF355 81.00	SF455 120.00

Bulldog Single Throw Not-Fusible

Bulldog Single Throw Not-Fusible				
Amps.		2 Pole		3 Pole
30	250 Volts	JN221S	\$ 3.15	JN321S \$ 4.15
30	250-500-600 Volts	JN251	7.65	JN351 8.10
60	" " " "	JN252	8.10	JN352 8.55
100	" " " "	JN253	10.80	JN353 12.15
200	" " " "	JN254	17.60	JN354 22.50
400	" " " "	SN255	36.00	SN355 46.80
				4 Pole
30	250 Volts			JN421S \$ 8.00
30	250-500-600 Volts			JN451 10.80
60	" " " "			JN452 13.50
100	" " " "			JN453 20.70
200	" " " "			JN454 47.80
400	" " " "			SN455 63.00

ELECTRICAL CONTRACTING

SMALL ENTRANCE SWITCHES

Bulldog

2 Pole—125 Volt—Fusible—For Plug Fuses No. JE211 S & P.....	\$1.65
2 " 125 " " " " " Quick Make & Break JF211S.....	2.70
2 Pole—250 Volt—Fusible—For Cart. Fuses SF221 S & P.....	2.50
2 Pole—250 Volt—Not Fusible—For Cart. Fuses SN221 S & P.....	2.70
3 Pole—125 Volt—Fusible—For Plug Fuses No. JE311 SP & PG.....	3.00
3 Pole—125 Volt—Fusible—For Plug Fuses Quick Make & Break JF311S.....	4.35

"TYPE A"

Bulldog Single Throw Quick Make and Break

	2 Pole		3 Pole	
	Number	Price	Number	Price
250 Volts Fusible				
30 Amp.	SF-221	\$ 10.80	SF-321	\$ 12.60
60 "	SF-222	13.60	SF-322	17.10
100 "	SF-223	20.70	SF-323	27.00
200 "	SF-224	32.40	SF-324	36.00
400 "	SF-225	63.00	SF-325	81.00
500-600 Volts Fusible				
30 Amp.		For	SF-351	18.00
60 "		2 Pole	SF-352	19.90
100 "		See 600 Volt	SF-353	28.80
200 "		Fusible	SF-354	45.00
400 "		Below	SF-355	88.00
250-500-600 Not Fusible				
30-60 Amp.	SN-251	\$11.70	SN-351	13.95
100 "	SN-253	19.80	SN-353	21.60
200 "	SN-254	25.20	SN-354	30.60
400 "	SN-255	54.00	SN-355	63.00
600 Volts Fusible				
30 Amp.	SF-261	16.20	SF-361	19.30
60 "	SF-262	17.10	SF-362	19.80
100 "	SF-263	27.00	SF-363	31.70
200 "	SF-264	42.00	SF-364	48.60
400 "	SF-265	93.00	SF-365	123.00
600 Volts Not Fusible				
30-60 Amp.	SN-261	12.60	SN-361	16.20
100 "	SN-263	20.25	SN-363	24.75
200 "	SN-264	26.50	SN-364	33.75
400 "	SN-265	65.50	SN-365	87.75
			4 Pole	
			Number	Price
250 Volts Fusible				
30 Amp.			SF-421	\$ 16.20
60 "			SF-422	21.60
100 "			SF-423	36.00
200 "			SF-424	54.00
400 "			SF-425	108.00
500-600 Volts Fusible				
30 Amp.			SF-451	21.60
60 "			SF-452	23.40
100 "			SF-453	47.80
200 "			SF-454	57.60
400 "			SF-455	126.00
250-500-600 Not Fusible				
30-60 Amp.			SN-451	19.80
100 "			SN-453	28.80
200 "			SN-454	40.00
400 "			SN-455	103.50
600 Volts Fusible				
30 Amp.			SF-461	23.40
60 "			SF-462	25.20
100 "			SF-463	39.60
200 "			SF-464	59.40
400 "			SF-465	144.00
600 Volts Not Fusible				
30-60 Amp.			SN-461	21.75
100 "			SN-463	29.70
200 "			SN-464	43.65
400 "			SN-465	120.60

COMPENSATOR SWITCHES "A"

Bulldog Quick Make & Break Fusible

Amps.		250 Volt AC			
		3 Pole		4 Pole	
30 A.	SF321 C	\$16.20	SF421 C	\$	21.60
60 A.	SF322 C	20.25	SF422 C		26.10
100 A.	SF323 C	31.60	SF423 C		46.80
200 A.	SF324 C	45.90	SF424 C		64.80
400 A.	SF325 C	94.50	SF425 C		129.00

Amps.		500-600 Volts AC			
		3 Pole		4 Pole	
30 A.	SF351 C	\$20.70	SF451 C	\$	32.40
60 A.	SF352 C	21.00	SF452 C		36.00
100 A.	SF353 C	33.75	SF453 C		61.20
200 A.	SF354 C	50.40			.....
400 A.	SF355 C	105.60			.....

MOTOR STARTERS

Bulldog

30	Amp-Type	C-Porc.	Base-110 to 440 Volt	3 Pole	
30	"	C Slate	440 & 550 "	JM-321S	\$ 6.75
30	"	"	250 Volt	JM-351	11.70
30	"	"	500 "	MF-321	17.00
60	"	"	500 "	MF-351	23.75
60	"	"	250 "	MF-322	23.50
60	"	"	500 "	MF-352	28.30

30	Amp-Type	C-Porc.	Base-110 to 440 Volt	4 Pole	
30	"	C-Slate	440 & 550 "		.....
30	"	"	250 Volt	MF-421	\$22.80
30	"	"	500 "	MF-451	35.25
60	"	"	350 "	MF-422	29.45
60	"	"	500 "		

NOTE: For Bulldog Switches not listed deduct 10% from Bulldog Lists.

SMALL ENTRANCE SWITCHES

Columbia, 30 Amp.

Description						2 Pole
Single Fused	Single Blade-125 Volt-Plug Fused					\$390-\$321 \$1.50
Double "	Double " 125 "	"	"	"	"	1940 1.05
"	" " 250 "	"	"	Cartridge Fused		3980 1.05
"	" " 250 "	"	"	"		323 2.35
						422 2.60

Description						3 Pole
Single Fused	Single Blade-125 Volt-Plug Fused					.....
Double "	Double " 125 "	"	"	"	"	1931-2 \$2.15
"	" " 250 "	"	"	Cartridge Fused		3930-1 2.60
"	" " 250 "	"	"	"		323 4.00
						423 4.50

BRANCH CIRCUIT ENTRANCE SWITCHES

Columbia

30	2	4	6	8
Amp. Series	Circuit 2 Pole	Circuit 2 Pole 3 Pole	Circuit 2 Pole 3 Pole	Circuit 3 Pole
2401 to 2406	\$4.00	\$5.00 \$5.35	\$6.00	\$6.35 \$7.35
3401 to 3406	5.00	6.35 6.65	7.35	8.70 9.75
3501 to 3506	4.85	6.00 6.35	7.00	7.70 8.70

INDUSTRIAL SWITCHES

Columbia

Series 70 Type C Fusible					
	Amps		2 Pole		3 Pole
		Number	Price	Number	Price
250 Volts	30A	C7001	\$ 9.40	C7002	\$11.80
Fusible	60A	C7004	12.10	C7005	15.75
Quick Make	100A	C7007	19.10	C7008	24.00
& Break	200A	C7010	28.35	C7011	35.00

Series 70 Type A Fusible

	Amps	2 Pole		3 Pole	
		Number	Price	Number	Price
250 Volts	30A	A7001	\$10.45	A7002	\$13.00
Fusible	60A	A7004	13.30	A7005	17.55
Quick Make	100A	A7007	21.75	A7008	37.90
& Break	200A	A7010	31.00	A7011	36.00

Series 71-500 Volts Fusible

	Amps	2 Pole	3 Pole	Prices
		Number	Number	
500 Volts	30A	7101	7102	\$15.75
Quick Make	60A	7104	7105	16.10
& Break	100A	7107	7108	27.00
	200A	7110	7111	43.80

Series 73-500 Volts Unfused

	Amps	2 Pole	3 Pole
		Number Price	Number Price
500 Volts	30A	7301 \$11.00	7302 \$12.00
Quick Make	60A	7304 11.00	7305 13.40
& Break	100A	7307 17.35	7308 19.60
	200A	7310 24.00	7311 28.80

Series 72-600 Volts Fusible

	Amps	2 Pole		3 Pole	
		Number	Price	Number	Price
600 Volts	30A	7201	\$14.80	7202	\$16.25
Quick Make	60A	7204	14.80	7205	16.75
& Break	100A	7207	24.50	7208	27.60
	200A	7210	39.00	7211	43.00

Series 74-600 Volts Unfused

	Amps	2 Pole	3 Pole
		Number	Price
600 Volts	30A	7401	\$11.90
Quick Make	60A	7404	12.60
& Break	100A	7407	19.20
	200A	7410	25.50

Series 20-250 Volts Fusible

	Amps	2 Pole		3 Pole	
		Number	Price	Number	Price
Quick Break	30A	2022	\$ 5.15	2023	\$ 6.95
Only	60A	2025	6.95	2026	8.00
250 Volts	100A	2028	10.95	2029	13.50
	200A	2031	19.35	2032	24.50

Series 23-250-500 Volts Unfused

	Amps	2 Pole		3 Pole	
		Number	Price	Number	Price
Quick Break	30A	2322	\$ 4.85	2323	\$ 6.35
Only	60A	2325	9.10	2326	9.70
250 Volts	100A	2328	11.60	2329	12.70
	200A	2331	19.40	2332	23.40

Series 30—Quick Break—250 Volts For Meter Trims

	30 Amp.	60 Amp.
2 Pole.....	3022 \$5.65	3025 \$ 8.00
3 Pole.....	3023 7.65	3026 10.00
	100 Amp.	200 Amp.
2 Pole.....	3028 \$12.70	3031 \$18.35
3 Pole.....	3029 16.30	3032 24.35

MOTOR STARTING SWITCHES

Columbia, 250 Volts

	2 Pole		3 Pole	
30 Amp. Motor Start Switch.....	6001	\$12.70	6002	\$17.00
60 " " "	6004	13.30	6005	17.45
			4 Pole	
30 Amp. Motor Start Switch.....			6003	\$20.00
60 " " "			6006	27.20



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... Apply the heat exactly where it is needed ... handle the most delicate work without over-heating or burning adjacent parts—cut the time and cost of soldering, brazing and heating operations and do a better job.

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Appliance and Small Tank Division

Unit of Union Carbide and Carbon Corporation



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IN CANADA

The Prest-O-Lite Company of Canada, Ltd., Toronto



A.B.C.

Armored Bushed Cable

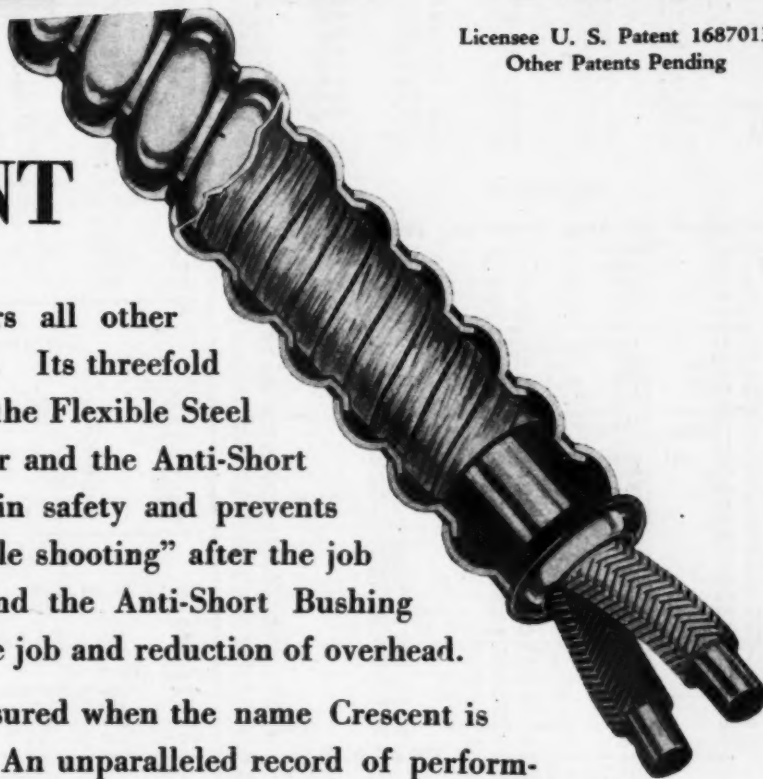
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CRESCENT

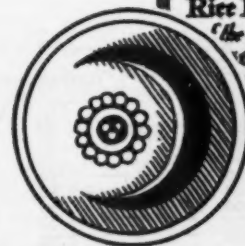
A product that renders all other armored cables obsolete. Its threefold protection, afforded by the Flexible Steel Armor, the Kraft Armor and the Anti-Short Bushing, provides certain safety and prevents the necessity of "trouble shooting" after the job has been finished. And the Anti-Short Bushing means more speed on the job and reduction of overhead.

Further protection is assured when the name Crescent is coupled with A. B. C. An unparalleled record of performance in the entire line of Crescent wire and cable products is but an indication of what may be expected of Crescent A. B. C. Cable.



CRESCENT
ARMORED WIRE CO.
CRESCENT INSULATED WIRE & CABLE CO.
TRENTON, N.J.

Forty Years of Knowing How in Every Crescent Product



Wadsworth

30 Amp. Switches		30 Amp. Switches		30 Amp. Switches		30 Amp. Switches	
No.	Price	No.	Price	No.	Price	No.	Price
8	\$1.90	223	\$2.40	1014	\$6.10	2330	\$8.50
12	1.00	224	3.00	1202	3.95	2334	9.20
15	1.25	238	3.75	1203	4.25	2441	6.55
17	3.30	241	5.05	1212	4.25	2461	6.55
21	3.30	242	4.70	1223	4.75	2462	6.20
25	2.20	243	5.05	1250	3.65	2463	6.55
25T	3.10	244	4.70	1322	4.15	2464	6.20
26	2.65	271	4.00	1323	4.75	2534	6.75
27	2.50	272	4.00	1401	4.10	2632	3.25
30	1.55	273	4.70	1402	3.95	2633	4.65
31T	2.75	274	4.40	1403	4.25	2639	4.65
33	1.65	284	4.80	1401T	4.60	3032	11.15
33T	2.90	292	4.00	1402T	4.55	3033	12.00
38	2.50	294	5.35	1403T	4.80	3532	9.10
39	3.75	322	6.20	1411	4.50	3533	10.00
99	.10	331	4.85	1411T	5.15	3534	13.30
100	.10	332	6.55	1412	4.25	3539	10.00
101	.50	340	4.75	1412T	5.20	3632	16.80
131	3.90	341	5.05	1423	4.75	3633	21.15
132	3.30	350	3.20	1423T	5.45	3634	22.05
133	3.90	362	4.15	1450	3.65	3639	21.10
141	4.15	370	4.15	1450T	4.25	8531	8.90
142	3.75	372	4.95	1451	3.95	8532	8.45
143	4.15	380	4.65	1451T	4.60	8533	9.75
144	4.55	382	4.70	1612	4.05	8534	12.45
145	4.95	392	5.05	1632	9.85	8539	9.75
151	3.40	440	6.20	1643	4.25	9531	15.45
152	3.00	441	6.55	2202	4.80	9532	12.70
153	3.40	443	6.55	2203	4.80	9533	15.45
154	4.45	461	6.55	2230	9.75	9534	17.75
211	4.15	462	6.20	2212	5.10	9539	15.45
212	3.75	463	6.55	2223	5.10	9862	8.45
213	4.15	464	6.20	2234	11.25	9863	8.90
214	3.75	633	5.35	2251	4.50	9864	13.90
221	2.65	734	11.15	2284	6.20		
222	3.00	1013	4.20	2294	6.55		

Wadsworth

60 Amp. Switches		100 Amp. Switches		200 Amp. Switches	
No.	Price	Number	Price	Number	Price
161	\$ 9.60	102	\$15.70	522	\$19.80
162	9.15	110	16.55	523	24.95
163	11.80	111	16.55	722	27.05
171	9.35	112	15.70	723	31.00
172	9.15	113	18.95	724	37.35
503	11.45	513	17.25	729	62.00
1024	13.30	1033	11.55	1042	14.20
1762	16.30	1034	16.50	1043	22.00
1763	22.75	1712	27.35	1044	31.35
1764	21.45	1713	35.40	2622	18.15
1769	21.70	1714	35.00	2623	21.45
1800	15.70	1719	30.90	2624	40.85
1802	16.55	1900	24.35	2629	19.80
1803	17.40	1902	25.20	2812	11.55
1812	17.40	1903	26.10	2813	14.65
1830	19.10	1912	26.10	2819	13.90
1834	20.90	1930	28.70	3212	10.20
1842	17.42	1934	30.50	3213	11.55
1843	18.25	1942	26.10	3522	27.20
1851	16.55	1943	27.90	3523	31.15
2030	15.65	1951	26.10	3524	43.15
2034	17.40	2130	25.20	3529	31.15
2042	15.70	2134	26.95	3622	41.60
2043	16.55	2142	24.40	3623	47.35
2051	14.80	2143	26.10	3624	53.20
2664	13.30	2151	24.40	3629	47.35
2861	8.45	2614	25.60	4603	54.45
2862	8.00	3512	14.65	4643	59.40
2863	9.30	3513	17.75	4630	59.75
2869	9.30	3514	25.60	4634	64.70
3162	15.95	3519	17.75		
3163	17.75	3612	24.85	400 Amp. Switches	
3262	8.00	3613	31.95	642	\$55.45
3263	8.45	3614	35.90	643	67.65
3562	9.75	3619	31.95	742	61.65
3563	11.55	8511	14.65	743	75.13
3564	13.75	8512	12.45	744	91.30
3569	11.55	8513	15.55	749	75.15
3662	17.05	8514	27.50	1052	36.30
3663	22.05	8519	15.55	1053	47.85
3664	24.00	9511	29.30	1054	66.00
3669	22.05	9512	24.85	2542	40.50
8561	9.30	9513	29.30	2543	61.00
8562	8.90	9514	39.00	2544	86.65
8563	10.20	9519	29.30	3512	54.45
8564	14.20	9812	10.65	3543	78.40
8569	10.20	9813	12.00	3544	94.05
9561	18.55	9814	21.45	3549	78.35
9562	14.65			4803	99.00
9563	18.55			4830	129.35
9564	23.25			4834	137.55
9569	18.55			4843	112.20

EXTRA END WALLS—SHUTTERS—TRIMS—ETC.

Wadsworth		Knock-Meter	
For 30 Amp. 125 Volt Switches	Type of Trim	Shutter	Shutter
	Flat	Extended	Shutter
" 30 "	250 "	" 2 Pole "	" 25 "
" 60 "	250 "	" 3 "	" 35 "
" 100 "	250 "	" 2 "	" 45 "
" 100 "	250 "	" 3 "	" 50 "
" 200 "	250 "	" 2 "	" 50 "
" 200 "	250 "	" 3 "	" 55 "

Murray Switches

ENTRANCE SWITCHES

With End Wall	Description	No.	2 Pole Price	3 Pole Price
Amps. Volts				
30 125	For Plug Fuses 1 Blade 1 Fuse	630	\$ 1.50	230 \$2.25
30 125	" " " 2 " 2 "	231	1.65	831 2.10
30 125-250	" " " " " "			830 3.55
30 125-250	For 2 Cartridge Fuses			760 17.40
60 250	" 3 Cart. Fuses-3 Phase-3 Wire			769 20.00
100 250	" 3 " " 3 " 3 "			710 29.05
100 250	" 3 " " 3 " 3 "			712 29.95
200 250	" 3 " " 3 " 3 "			720 60.75
200 250	" 3 " " 3 " 4 "			722 68.85

ACCESSIBLE MAIN FUSE SWITCHES

Meter Test Type	Description	No.	2 Pole Price	3 Pole Price
Amps. Volts				
30 125	For Plug Fuses One Fuse	755	\$ 3.65	
30 125	" " " 2 & 3 Fuse	748	3.95	756 \$ 4.45
30 250	" Cart. " One Fuse	738	4.20	
30 250	" " " Two Fuse	737	4.85	742 4.85
60 250	" " " For 1 Fuse	766	15.95	
60 250	" " " For 2 Fuse	764	16.85	765 17.70
100 250	" " " For 2 Fuse	718	25.60	719 27.40

Meter Test	3 Phase	3 & 4 Wire Type	Without End Walls
Amps. Volts			
60 250	For 3 Cart. Fuses-3 Phase-3 Wire		767 \$19.90
60 250	" 3 " " 3 " 4 "		768 23.00
100 250	" 3 " " 3 " 4 "		711 30.00
100 250	" 3 " " 3 " 4 "		714 32.45
200 250	" 3 " " 3 " 4 "		721 64.80
200 250	" 3 " " 3 " 4 "		723 72.90

Not Meter Test	With Branches Combined	Without End Walls
Amps. Volts		
30 125	For Plug Fuses-2 Branches	780 \$5.70 782 \$6.50
30 125	" " " 4 " "	781 6.35 783 7.15
30 125	" " " 1 " "	784 6.00
30 125	" " " 2 " "	785 6.65

Not Meter Test	For Plug Fuses-One Fuse	Without End Walls
Amps. Volts		
30 125	" " " Two Fuses	754 \$ 3.35
30 250	" " " " "	752 3.65 753 \$ 3.95
60 250	" " " " "	757 4.55 758 4.55
100 250	" " " " "	762 15.95 763 16.80
100 250	" " " " "	716 24.75 717 25.60

"UNISAFIT" (Universal Standardized Switches)

Number	Pole	Fuse	Neutral	All 30 Amps.	Branches & Fusing	Price
234	2	Single		1-2-Wire	2 Fuses	\$3.25
235B	2	"		2-2-	"	3.25
236	2	"		4-2-	"	4.30
237	2	Two	Solid	1-3-	"	3.75
237	2	"	"	1-2-	"	3.75
237	3	"	Solid	2-2-	"	3.75
238	3	"	Solid	4-2-	"	4.85
238	2	"	"	2-2-	4 "	4.85

METER SERVICE SWITCHES

Fuses & Blades Dead	Description	No.	2 Pole Price	3 Pole Price
Amps. Volts				
30 125	For Plug Fuses	232	\$ 2.20	233 \$ 3.35
60 250	For Cart. Fuses	364	15.05	365 15.95

Fuses Alive	Description	No.	2 Pole Price	3 Pole Price
Amps. Volts				
30 125	For Plug Fuses	330-1	\$ 2.65	333 \$ 3.35
30 250	For Cart. Fuses	130	2.65	133 3.35
60 250	" " " "	360	8.45	361-3 8.90
100 250	" " " "	310	15.05	313-4 15.95

SEALABLE MAIN FUSES

Polyphase—3 Wire	Without End Walls
3 Pole-3 Blades-For Cart. Fuses 250V.	30 Amp. 60 Amp. 100 Amp.
	332 \$11.10 362 \$16.80 311 \$26.50

TYPE C SWITCHES

Quick Break	Description	No.	2 Pole Price	3 Pole Price	4 Pole Price
Amps.	All Cart. Fuse				
30	Solid Neutral 125-250	632	\$ 3.35	633 \$ 4.40	634 \$ 8.70
30	" " " "	661	8.35	663 9.45	664 12.15
60	Solid Neutral 125-250	665	9.45	666 9.45	667 9.45
60	" " " "	611	13.30	613 16.20	614 24.75
100	Solid Neutral 125-250	612	16.20	615 16.20	616 17.10
100	" " " "	621	23.40	623 28.80	624 51.30
200	Solid Neutral 125-250	625	24.30	626 24.30	627 30.15
200	" " " "	622	28.80	623B 30.15	

END WALLS, PLATES & TROUGHS & ADAPTORS

End Wall	30 Amp.	60 Amp.	100 Amp.
Shutter	\$.30	\$.65	\$1.00
Shutter	.15	.25	.25
Closure Plate	.30	.30	.30
Trough Cover & Adapting Slide	.15	.15	.15
Trough 2" 3 & 4"			\$.40
" 5"			.45
" 6"			.50
" 7"			.55
" 8"			.60
" 9"			.65
" 10"			.75

Diamond E Switches

SMALL ENTRANCE SWITCHES, 30 AMPS.

Volts	For Fuses	Description	2 Pole	3 Pole
125	Plug	All Fused	P-2 \$1.65	P-3 \$2.75
125	Plug	Ground Neutral	P-2S 1.65	P-3S 2.25
250	Cartridge	All Fused	C-2 2.25	C-3 4.00
250	Cartridge	Ground Neutral	.....	C-3S 2.90

ALL-N-ONE SWITCHES

Live Front	Double Fuse	Dead Front	Single Fuse
No.	Circuits	No.	Circuits
A-2	2	AD-3	3
A-3	3	AD-4	4
A-5	5	AD-5	5
A-7	7	AD-6	6
A-9	9	AD-8	8
		AD-10	10

RANGE & WATER HEATER SWITCHES

60 Amp.—125 Volts

No. 501	No. 502	No. 503	No. 504	No. 505	No. 506	No. 507
\$9.90	\$15.25	\$23.60	\$26.75	\$20.25	\$8.90	\$13.90

MOTOR STARTING SWITCHES

MS-1	30 Amp. 3 Pole 220 Volts Quick Make & Break Toggle.....	\$6.00
C-3P	30 Amp. 3 Pole 250 Volts Not Toggle.....	7.10

SAFE LINE SERVICE SWITCHES

No. 904	Single Pole 4 Circuits with Transformer.....	\$7.85
"	" " " " without Transformer.....	6.60

INDUSTRIAL TYPE

Quick Break—Single Throw—Fused Bottom

250 Volts							
Amp.	No.	Price	No.	Price	No.	Price	
30	3022	\$ 5.40	3032	\$ 6.75	3042	\$ 7.90	
60	6022	8.10	6032	9.00	6042	11.65	
100	10022	11.65	10032	13.30	10042	24.10	
200	20022	18.25	20032	24.10	20042	39.75	
400	40022	44.85	40032	61.50	40042	87.20	
600	60022	78.00	60032	91.30	60042	131.10	

500 Volts							
Amp.	No.	Price	No.	Price	No.	Price	
30	3025	\$ 9.00	3035	\$ 8.55	3045	\$ 12.45	
60	6025	9.90	6035	10.80	6045	13.30	
100	10025	13.30	10035	15.80	10045	26.60	
200	20025	26.60	20035	30.00	20045	43.20	
400	40025	68.00	40035	74.70	40045	116.20	
600	60025	96.30	60035	103.00	60045	167.70	

600 Volts							
Amps.....	30 Amp.	60 Amp.	100 Amp.	200 Amp.			
Number.....	3026	6026	10026	20026			
Price.....	\$15.30	\$15.80	\$25.00	\$38.60			

Not Fused—Quick Break

Amps.	Pole	Single Throw—No Fuse	Double Throw—No Fuse
30	2	250 DC 3022N \$ 5.00	3022DN \$ 10.80
30	3	250 DC 3032N 6.30	3032DN 12.45
30	2	500 AC 3025N 8.65	3025DN 13.15
30	3	500 AC 3035N 8.10	3035DN 16.60
60	2	250-500 6025N 8.10	6025DN 13.15
60	3	250-500 6035N 8.55	6035DN 16.60
100	2	250-500 10025N 11.50	10025DN 24.90
100	3	250-500 10035N 11.25	10035DN 30.70
200	2	250-500 20025N 17.00	20025DN 34.85
200	3	250-500 20035N 20.75	20035DN 50.60
400	2	250-500 40025N 49.80	40025DN 99.60
400	3	250-500 40035N 58.00	40035DN 132.80
600	2	250-500 60025N 83.00	60025DN 141.00
600	3	250-500 60035N 99.60	60035DN 163.50

S-SUNDRIES

STEEL WOOD SCREWS

Flat Head

Length	Number Per Dozen	Up To 4	No. 5	No. 6	No. 7	No. 8
1 1/4"	"	\$.05	\$.05	\$.05	\$.05	\$.05
1 1/2"	"	".05	".05	".05	".05	".05
1 3/4"	"	".05	".05	".05	".05	".05
2"	"	".05	".05	".05	".05	".05
2 1/4"	"	".05	".05	".05	".05	".05
2 1/2"	"	".05	".05	".05	".05	".05
2 3/4"	"	".05	".05	".05	".05	".05
3"	"	".05	".05	".05	".05	".05
3 1/4"	"	".05	".05	".05	".05	".05
3 1/2"	"	".05	".05	".05	".05	".05
3 3/4"	"	".05	".05	".05	".05	".05
4"	"	".05	".05	".05	".05	".05

STEEL WOOD SCREWS—Continued

Length	Number Per Dozen	No. 9	No. 10	No. 12	No. 14	No. 16
1 1/4"	"	\$.05	\$.05	\$.05	\$.05	\$.05
1 1/2"	"	".05	".05	".05	".05	".05
1 3/4"	"	".05	".05	".05	".05	\$.09
2"	"	".05	".05	".05	".05	\$.10
2 1/4"	"	".05	".05	".05	".05	\$.11
2 1/2"	"	".05	".05	".05	".05	\$.12
2 3/4"	"	".05	".05	".05	".05	\$.13
3"	"	".05	".05	".05	".05	\$.14
3 1/4"	"	".05	".05	".05	".05	\$.15
3 1/2"	"	".05	".05	".05	".05	\$.16
3 3/4"	"	".05	".05	".05	".05	\$.17
4"	"	".05	".05	".05	".05	\$.18

BRASS SCREWS

Round, Flat or Oval Head

Length	Number Per Dozen	Up to 4	No. 5	No. 6	No. 8	No. 9
1 1/4"	"	\$.06	\$.06	\$.07	\$.08	\$.10
1 1/2"	"	".06	".07	".08	".09	\$.11
1 3/4"	"	".07	".07	".08	".11	\$.12
2"	"	".08	".08	".09	".12	\$.13
2 1/4"	"	".08	".08	".11	".13	\$.15
2 1/2"	"	".08	".08	".14	".15	\$.17
2 3/4"	"	".08	".08	".20	\$.22	\$.23
3"	"	".08	".08	".24	\$.26	\$.28
3 1/4"	"	".08	".08	\$.32	\$.34	\$.36
3 1/2"	"	".08	".08	\$.40	\$.45	\$.48
3 3/4"	"	".08	".08	\$.50	\$.55	\$.58
4"	"	".08	".08	\$.60	\$.65	\$.68

Length	Number Per Dozen	No. 10	No. 12	No. 14	No. 16	No. 18
1 1/4"	"	\$.11	\$.12	\$.14	\$.15	\$.16
1 1/2"	"	".12	".14	".15	".16	\$.17
1 3/4"	"	".15	".18	\$.22	\$.24	\$.26
2"	"	".16	".20	\$.24	\$.26	\$.28
2 1/4"	"	".20	\$.25	\$.32	\$.34	\$.36
2 1/2"	"	".26	\$.30	\$.40	\$.45	\$.48
2 3/4"	"	".30	\$.35	\$.45	\$.50	\$.55
3"	"	".33	\$.40	\$.50	\$.55	\$.58
3 1/4"	"	".33	\$.45	\$.60	\$.70	\$.75

For Gross Lots Multiply dozen price 7 times.

LAG SCREWS

Length	Price Each	3"	3 1/2"	4"	4 1/2"	5"	6"
1 1/4"	"	\$.05	\$.05	\$.05	\$.05	\$.05	\$.05
1 1/2"	"	".05	".05	".05	".05	\$.09	\$.10

STRAPS—CLIPS OR CLAMPS

Without Screws, For Pipe

Tinned Straps 2 Hole Price Each	1/4"	1/2"	3/4"	1"	1 1/4"
Light Steel Straps-1 Hole Price Each	\$.01	\$.01	\$.01	\$.01	\$.01 1/2
Mall. Iron Straps-1 Hole Price Each	\$.03	\$.03	\$.05	\$.07	\$.08
P & S Conduit Clips With Bolts	\$.07	\$.08	\$.10	\$.12	\$.14
Tinned Straps 2 Hole Price Each	\$.02	\$.03	\$.04	\$.05	\$.06
Light Steel Straps-1 Hole Price Each	\$.10	\$.15	\$.20	\$.25	\$.30
Mall. Iron Straps-1 Hole Price Each	\$.25	\$.45	\$.70	\$.95	\$.1.20
P & S Conduit Clips With Bolts	\$.26	\$.45	\$.70	\$.95	\$.1.20

SOLDER

40-60 Bar or Wire	50-80 Bar or Wire	Resin Core	Ribbon	Allen Alumi-Flux
Per Pound.....	\$.70	\$.85	\$.15	\$.20
Per Ounce.....	.10	.10	.10	.20

SOLDER PASTE

Make	2 oz. Cans	2 oz. Tubes	4 oz. Cans	Half Pound Cans	One Pound Cans
Allen	\$.30	\$.40	\$.55	\$.90	\$1.50
Burnley	.20	.30	.35	.40	.70
Crescent	.25	.35	.45	.50	1.00
G. E.	.20	.30	.40	.50	1.50
Highland	.30	.40	.50	.60	1.50
Nokorode	.20	.30	.40	.50	1.50

SOLDERING SALTS

		½ Lb.	1 Lb.
Burnley.....	In cans each.....	\$.65	\$1.00
Eaco.....	" " ".....	.80	1.50
Yeager.....	" " ".....	.65	1.00
McGill Crescent.....	" " ".....	.75	1.00
Nokorode.....	In cans each.....	.....	.85
Allen.....	In Bottles each.....	.75	1.00

SOLDER STICKS

Burnley	.....	\$ .20
Eaco	.....	.25
Samson	.....	.30
Allen	.....	.40
Crescent	.....	.25
GE	.....	.25

FIXTURE STUDS

	³ / ₄	¹ / ₂
Four Prong Fixture Studs Less Bolts.	\$ 10	\$ 15
Bolts Extra. ....	.01	.01
No Bolt Fixture Studs. ....	.10	.15

STAPLES

Staples Insulated Nails Per Dozen.....	\$.05
Leather Nail Heads Per Dozen.....	.05
Milonite Insulated Nails Per Dozen.....	.05

TAPE

FRICTION TAPE		Per Pound	Per Half Pound	Per 2 Ounce	Per 1 Ounce	Per Foot
Amazon	Friction	\$.65	\$.35	\$.10	\$.05	\$.01
Adhese	"	.65	.35	.10	.05	.01
Bulldog	"	.70	.40	.10	.05	.01
Catara	"	.55	.30	.10	.05	.01
Commodity	"	.60	.30	.10	.05	.01
Dutch Brand	"	.60	.30	.10	.05	.01
Everstick	"	.60	.30	.10	.05	.01
Eaco	"	.95	.50	.15	.10	.02
G. E.	"	.55	.30	.10	.05	.01
Graybar Railway Signal	"	.90	.45	.15	.10	.02
Grimshaw	"	2.00	1.00	.25	.15	.03
Holdfast	"	1.00	.50	.15	.10	.02
Holdrite	"	.60	.30	.10	.05	.01
I X L	"	.75	.40	.10	.05	.01
Illinois	"	.55	.30	.10	.05	.01
Johns Manville Armature	"	1.75	.90	.20	.10	.02
" Jomanco	"	1.00	.55	.15	.10	.02
" White	"	1.35	.70	.20	.10	.02
" No. 3 Now No. 5	"	.60	.30	.10	.05	.01
" No. 6 " " 40	"	.55	.30	.10	.05	.01
Jaxon	"	.60	.30	.10	.05	.01
Leader	"	.70	.35	.10	.05	.01
Manson	"	1.30	.65	.20	.10	.02
Magnet	"	.75	.40	.10	.05	.01
O. K.	"	.60	.30	.10	.05	.01
P & B.	"	1.00	.50	.15	.10	.02
Peerless	"	.60	.30	.10	.05	.01
Service	"	.90	.45	.15	.10	.02
Stanpat	"	.55	.30	.10	.05	.01
Sticks	"	.55	.30	.10	.05	.01
Security	"	.55	.30	.10	.05	.01
Victor	"	.55	.30	.10	.05	.01
Vim Grav.	"	1.10	.60	.15	.10	.02

RUBBER TAPE

Amazon	Rubber	\$1.00	\$.50	\$.15	\$.10	\$.04
Alexall	"	1.20	.60	.15	.10	.04
Alpha	"	1.00	.50	.15	.10	.04
Brooklyn	"	.60	.30	.10	.05	.03
Catara	"	.70	.35	.10	.05	.03
Dutch Brand	"	.70	.35	.10	.05	.03
Eaco	"	.60	.30	.10	.05	.03
G. E.	"	.60	.30	.10	.05	.03
Graybar Victor	"	.60	.30	.10	.05	.03
Holdfast	"	1.00	.50	.15	.10	.04
Imperial	"	.60	.30	.10	.05	.03
Illinois	"	.60	.30	.10	.05	.03
Okonite	"	1.65	.85	.20	.10	.04
Para	"	.75	.40	.10	.05	.03
Pittsburgh	"	.60	.30	.10	.05	.03
Relio U.S.	"	.60	.30	.10	.05	.03
Security	"	.55	.30	.10	.05	.03
U. S. Rubber	"	.65	.35	.10	.05	.03
Twin Tape Rubber & Friction	"	.75	.40	.10	.05	.03
USCO Westinghouse	"	.90	.50	.15	.10	.04

COUCH TELEPHONES

VESTIBULE TYPE

No. 74 Armored Cord Receiver Type	\$25.00
No. 74A Swing Arm Receiver Type	37.30
No. 74C Cordless Loud Speaker Type	30.75
Above prices are for telephones complete but do not include for any call buttons.	
Add for buttons—Janitor Calling Buttons if fitted	\$.95
Add for Each Suite Calling Button	.95

SUITE TELEPHONES

Series 2809 to 2849 or 1909 to 49	Page 22 Bulletin No. 89 S. H. Couch Co.
Number of Buttons	0 1 2 3 4
Price Ea. Surface or Flush	\$11.40 \$11.40 \$12.45 \$13.60 \$14.60

TELEPHONE CABLES

Braided Type "B"		Lead Covered Type "L"	
Number of Conductors	Number Price per Foot	Number Price per Foot	Number Price per Foot
8	B-8 .14	L-8 .18	
12	B-12 .15 1/4	L-12 .21	
16	B-16 .18	L-16 .27	
21	B-21 .22	L-21 .29	
25	B-25 .24	L-25 .32	
31	B-31 .27	L-31 .39	
37	B-37 .30	L-37 .44	

TIME SWITCHES

BUCKEYE TIME SWITCHES

		Without Term. Box	With Term. Box
110 or 220 V. Sgl. or Dble Pole-10 A.		\$19.50	\$28.00
" " " " " " " 20 A.		23.00	30.00
" " " " " " " 30 A.		26.00	32.00
" " " " " " " 50 A.		30.00	36.00
Specials		26.00	30.00
Buckeye Combination Time Switch Remote Control Unit Complete			
AC Capacity up to 125A-110 or 220 Volt-2 & 3 Wire			\$ 70.00
DC			125.00

HARTFORD TIME SWITCHES

		10 Amp.	20 Amp.	35 Amp.	50 Amp.
Type B Single or Double Pole		\$36.00	\$39.00	\$42.00	\$50.00
Type B Triple Pole		38.00	41.00	45.00	
Type C & D Single or Double Pole		39.00	42.00	47.00	52.00
Type C & D Triple Pole		41.00	45.00	49.00	
Type G Apt. Hall Light Control D.P.		38.00		60.00	

PARAGON TIME SWITCHES

Indoor		All 250 Volt		Outdoor	
No. 1—\$47.00		30 Amp. Double Pole		No. 2—\$47.00	
No. 1—59.00		50 " " "		No. 2—59.00	
No. 1—59.00		30 " Triple "		No. 3—59.00	
No. 3—45.00		20 " Double "		No. 4—45.00	
No. 3—40.00		10 " " "		No. 4—40.00	
No. 3—45.00		10 " Triple "		No. 4—45.00	
Sunday Shut Off—Extra					\$5.00
Attachment for Turning on earlier					5.00

RELIANCE & RACINE SWITCHES

		10 Amp.	20 Amp.	30 Amp.	50 Amp.
Racine Type 1R-2R		\$19.50	\$25.00		
Reliance Type 10-20-30-50		28.00	30.00	\$32.00	\$36.00
Reliance Type 15 Triple Pole			32.00		

SAUTER TIME SWITCHES

		All 115-230 Volt A. C. & D. C. Single Throw.	Price
No.	Amps. Poles	Description	
101	2 1	Clock operated, key wound 40 day clocks	\$ 52.00
111	10 1	" " " " 40 " "	56.00
121	15 2	" " " " 40 " "	60.00
201	2 1	Self winding	74.00
211	10 1	" " " " " "	80.00
221	10 2	" " " " " "	85.00
321	25 2	Motor operated self winding clocks	105.00
341	40 2	" " " " " "	110.00
401	100 2	Motor operated Oil Break self winding clocks	190.00
431	200 2	" " " " " "	250.00
461	300 2	" " " " " "	280.00

TORK TIME SWITCHES OR CLOCKS

		Indoor	Outdoor	Switchboard
Single Pole 15 Amp. 125 Volt		#115—\$20.00	#215—\$25.00	#015—\$19.00
Double " 30 " 250 "		#130—25.00	#230—30.00	
Single " Double Throw		#166—25.00		
Double " Momentary Contact		#111—25.00		
Dble. Pole 30 A. 250 V. Windless		#730—60.00	#830—65.00	#930—58.00
Combination Type—with Clock and Contactor				
For AC Only		Description	For DC Only	
No. 76062	\$50.00	60 Amps. 2 Pole	No. 75062	\$ 70.00
No. 76102	75.00	100 " 2 Pole	No. 75102	125.00

ZENITH TIME SWITCHES

		Closed Face	Open Face	Open Flush	Mount
Amp. Volts Pole	Numbers	Price	Numbers	Price	Numbers
10 110 Sgl.	T-810	\$20.00			
10 220 Sgl.					
10 220 Dbl.					
Mom. Cont.	110-MC	28.00	115-MC	\$30.00	125-MC \$34.00
On-Off	1101	20.00	1151	22.00	1251 26.00
20 110 Sgl.	110-ABCG	26.00	115-ABCG	28.00	125-ABCG 32.00
20 220 Dbl.	1102	23.00	1152	25.00	1252 29.00
20 220 Dbl.	110-B&G2	30.00	115-B&G2	32.00	125-B&G2 36.00
20 220 Tri.	11023	28.00	11523	30.00	12523 34.00
30 220 Dbl.	1103	25.00	1153	27.00	1253 31.00

TRANSFORMERS

BELL & TOY TRANSFORMERS

		50 to 133 Cycle	25 to 40 Cycle
Name	Style	Watt	Volts
ED-WARDS	Steel Clad Bell	25 Single	86 \$ 1.30
	" " "	25 Three	86T 1.60
	Porcelain Bell	25 Single	87 1.60
	Out. Box Bell	25	86ER 1.60
	Heavy Duty	50 8-10-24	88 4.30
	" " "	75 " "	89 6.40
	" " "	100 " "	90 7.50
	Toy	50 3 to 15	870 4.30
	" " "	75 3 to 24	871 5.95
	" " "	100 2 to 30	872 8.95

G. E.	Bell Residence	12 Volt	2332 1.30	102340 1.50
	Box Type	12 " "	2488 1.45	2490 1.70
	Heavy Duty	50 8-10-24	2333 5.10	2339 7.10
	" " "	100 10-20-30	2334 8.25	2340 11.30

HEMCO	Mold. Single	25 10 Volts	221 1.35	
	Mold. 3 Circuit	25 6 to 18V.	222 1.65	
	Steel Sgl. Cir.	25 10 Volts	225 1.25	235 1.35
	Steel 3 Circuit	25 6 to 18V.	226 1.35	
	Box Type Sgl. Cir.	25 10 Volts	227 1.35	237 1.50
	Box Type 3 Circuit	25 6 to 18V.	228 1.65	

Wizard	25 10 Volt	230-101 1.30	230-102 1.50
Nucode	25 10 Volt	230-111 1.45	230-112 1.65
Tri-Volt	25 6 to 18V.	230-121 1.45	230-122 1.65
Porcelain		230-131 1.45	
Little Jeff Toy	50 5 1/2-13	535-101 3.95	535-102 5.00
Midjet Toy	75 5 1/2-22	535-121 4.75	535-122 6.95
Model 2 Toy	100 5 1/2-23	535-131 7.15	535-132 9.10
Model 3 Toy	150 1-30	535-141 9.00	
Heavy Duty A	50 6 to 20	231-101 5.15	231-102 7.30
" " B	75 6 to 20	231-111 7.70	231-112 10.20
" " C	125 6 to 24	231-121 10.25	231-122 12.95
" " E	250 6 to 24	231-141 30.80	231-142 25.65

Blue Bell	10 8 Volt	6166 1.25	
Tri-Volt	20 6 to 16	6163 1.45	6126 1.40
Box Type	10 8 Volt	7166 1.45	
Porcelain Case	10 8 Volt	4166 1.45	

Greyhound	25 8 Volt	L-160 1.30	L-125 1.50
Type A	25 8 Volt	A-160 1.40	A-125 1.60
Tri-Volt	25 6-8-14 V.	A-1360 1.55	A-1325 1.80
Porcelain	25 8 Volt	AP-160 1.45	AP-125 1.65
Box Type	25 8 Volt	OB-160 1.45	OB-125 1.65
Toy Junior	50	50 3.30	50 4.00
" Genesee	75	75 4.95	75 6.00
" Senior	100	100 6.60	100 8.00
" Niagara	150	150 8.80	150 10.60

S-1 Sgl. Volt	15	S-1 1.30	
S-3 3 Volt	15	S-3 1.40	
D-1 Sgl. Volt	25	D-1 1.50	
D-3 3 Volt	25	D-3 1.70	
HD-1 3 Volt	60	HD-1 5.35	
EHD 3	100	EHD-1 6.65	
" 3	200		18.00
" 3	300		21.00

NOTE: For 220 Volt Transformers add 20% to above prices.

ELECTRICAL CONTRACTING

Wires

Wires

WIRES

RUBBER COVERED WIRES

Special Price on No. 14 S.B. Wire

In less than Coil Lots	Per Foot
In Coil Lots	\$.01 1/2
Price Per Foot	
Other Sizes	No. 18 No. 16 No. 14
Fixture Wire Light	\$.01 \$.01 1/2 \$.01 1/2
" Heavy	.01 1/2 .01 1/2 .01 1/2
Solid Single Braid	.01 1/2 .01 1/2 .01 1/2
" Double	.01 1/2 .01 1/2 .01 1/2
Stranded Sgl. Braid	.01 1/2 .01 1/2 .01 1/2
" Dble.	.02 1/2 .02 1/2 .02 1/2
Duplex Single Braid	.04 .04 .04
" Double	.05 .05 .05
Price Per Foot	
Other Sizes	No. 12 No. 10 No. 8 No. 6
Fixture Wire Light	\$.02 \$.03 \$.04 \$.07
" Heavy	.02 1/2 .03 1/2 .04 .07 1/2
Solid Single Braid	.02 .03 .04 .07
" Double	.02 1/2 .03 1/2 .04 .07 1/2
Stranded Sgl. Braid	.02 1/2 .03 1/2 .04 .07
" Dble.	.03 .04 .05 1/2 .07 1/2
Duplex Single Braid	.05 .06 .08 1/2 .13
" Double	.06 .07 1/2 .09 1/2 .13 1/2

LARGER SIZES DOUBLE BRAID STRANDED

Size	Price Per Foot	Size	Price Per Foot
No. 8 D. B.	\$.05 1/2	No. 1 D. B.	\$.19
No. 6 D. B.	.07 1/2	No. 0.	.22 1/2
No. 4 D. B.	.10	No. 00.	.27
No. 3 D. B.	.12	No. 000.	.33
No. 2 D. B.	.13 1/2	No. 0000.	.40

CIRCULAR MILL CABLE

Size	Price Per Foot	Size	Price Per Foot
250,000 C. M.	\$.48	600,000 C. M.	\$1.09
300,000 C. M.	.57	700,000 C. M.	1.26
350,000 C. M.	.65	750,000 C. M.	1.34
400,000 C. M.	.73	800,000 C. M.	1.44
450,000 C. M.	.83	900,000 C. M.	1.60
500,000 C. M.	.90	1,000,000 C. M.	1.75

Additions to Code Wire for 25% (Intermediate Grade) and 30% Wire.

Sizes	For Intermediate or 25% Wire	For 30% Wire
From No. 14 to No. 1.	5%	10%
From No. 1/0 to 4/0.	3%	6%
From 250,000 to 400,000 CM.	2%	5%
From 500,000 to 1,000,000 CM.	1 1/2%	3%

WEATHERPROOF WIRE

Triple Braid

	No. 18	No. 16	No. 14	No. 12	No. 10	No. 8	No. 6
Per Pound Solid.....	\$. 64	\$. 60	\$. 58	\$. 56	\$. 51	\$. 48	\$. 46
" Stranded.....					.59	.53	.50
Per Foot Solid.....	.01	.01½	.02	.02½	.03	.04	
" Stranded.....	.01½	.01½	.02½	.03	.03½	.04½	
Number Feet Per Pound...	90	70	40	30	20	13	
EXTRAS—For slow burning W. P. Wire—Per Pound Extra..... \$.01							
For Twisted Pair W. P. Wire—Per Pound Extra..... .02							
For Double Braid W. P. Wire—Per Pound Extra..... .01							
For Medium Hard Drawn—Per Pound Extra..... .00½							
For Armored Cables See Page PL-9.							

ANNUNCIATOR—TELEPHONE WIRE, ETC.

	No. 18	No. 16	No. 14	No. 12	No. 10	No. 8	No. 6
Fixture Wire Solid	\$.01	\$.01 1/2	\$.01 1/2	\$.01 1/2	\$.01 1/2	\$.01 1/2	\$.01 1/2
" Stranded Light	.01 1/2	.01 1/2	.01 1/2	.01 1/2	.01 1/2	.01 1/2	.01 1/2
" Heavy	.01 1/2	.01 1/2	.01 1/2	.01 1/2	.01 1/2	.01 1/2	.01 1/2

Description	No. 18	No. 16	No. 14	No. 12
Single Per Pound	.70	.68	.65	.62
Twisted or Duplex Per Pound	.75	.70	.68	.65
" Per Foot	.01	.01 1/2	.03	.04

Description	No. 18	No. 16	No. 14	No. 12
Single Per Pound	.90	.85	.80	.75
Twisted or Duplex Per Pound	.92	.88	.83	.78
" Per Foot	.02	.03	.04	.05

Description	No. 18	No. 16	No. 14	No. 12
Single Stranded Black Per Foot	.03	.03 1/2	.04	.05
Single Stranded Colored Per Foot	.04	.04	.05	.06
Single Glazed Cotton Per Foot	.04	.04	.05	.06
Single Artificial Silk Per Foot	.04 1/2	.05	.05 1/2	.08
Duplex Glazed Cotton Per Foot	.08	.09	.10	.11
Duplex Artificial Silk Per Foot	.09	.10	.11	.12
Twisted Pair Glazed Cotton Per Foot	.08	.09	.10	.11
Twisted Pair Artificial Silk Per Foot	.09	.10	.11	.12

Description	No. 18	No. 16	No. 14	No. 12
Asbestos Range Wire or Switch Board Wire	\$.10	\$.12	.13	.15

COVERED TELEPHONE WIRES

No.	Wire	Per Foot
No. 22-1/2	Twin Pair Plain Pothead Copper Wire	\$.03 1/2
No. 22-1/4	Twin Pair Flame Proof Copper Wire	.04
No. 22-B & S	Twin Pair West. Elect. Flameproof Jumper Wire (Enam)	.06
No. 19-1/8	Twin Pair Flame Proof Copper Wire	.04
No. 19-1/2	Twin Pair Dry Braid Interior Copper Wire (Olive)	.03 1/2
No. 19-3/4	3 Conductor Ditto	.05
No. 18-3/4	Twin Pair, Bridlewire, Saturated Braid	.03 1/2
No. 14-3/4	Twin Pair Outside of Bridle Saturated Braid	.06

Note—For Prices of Sgl. Conductor use 1/2 of above prices per foot.

GALVANIZED TELEPHONE WIRE

Size BWG	No. 4	No. 6	No. 8	No. 10	No. 12	No. 14
EBB Extra Best Per Pound	\$.13	\$.13	\$.13	\$.13	\$.14	\$.15
B. B. Best Best	.12	.12	.12	.12	.13	.14
Steel	.11	.11	.11	.11	.12	.13
Weight Per 1000 Feet	153	112	74	49	32	19
Weight Per Mile	811	590	390	258	170	90

WIRE, MAGNET

Price Per Pound

Size	Single Cotton	Double Cotton	Single Silk	Double Silk	Plain Enamel	Enamel- ed Single Cotton	Enamel- ed Double Cotton
8	\$.95	\$1.00			\$.95	\$1.00	\$1.05
10	.98	1.02			.97	1.04	1.07
12	1.00	1.05			1.03	1.06	1.09
14	1.05	1.10			1.02	1.08	1.12
16	1.07	1.12	\$ 1.45	\$ 1.60	1.05	1.10	1.20
18	1.09	1.15	1.50	1.80	1.08	1.15	1.30
20	1.15	1.25	1.70	2.05	1.10	1.30	1.35
22	1.25	1.35	1.80	2.20	1.12	1.35	1.45
24	1.35	1.50	1.90	2.40	1.15	1.45	1.60
26	1.45	1.70	2.05	2.50	1.27	1.70	1.90
28	1.70	2.05	2.20	3.05	1.40	1.95	2.25
30	1.95	2.35	2.95	3.95	1.50	2.20	2.50
32	2.35	2.95	3.70	5.50	1.70	2.85	3.50
34	2.95	3.65	4.85	7.30	1.80	3.65	4.70
36	3.70	5.05	6.50	9.30	2.25	5.00	5.80
38	5.95	8.50	9.70	16.00			
40	8.65	12.95	15.60	22.40			

NOTE: For odd sizes use half the increase of next larger size.

For 1/2 lb. lots use one third of above prices.

For one ounce lots use one tenth of above prices.

Price Per 100 Feet

Size	Single Cotton	Double Cotton	Single Silk	Double Silk	Enamel- ed Single Cotton	Enamel- ed Double Cotton
8	\$5.00	\$5.25			\$4.70	\$5.25
10	3.00	3.15			2.75	3.15
12	2.00	2.15			1.80	2.15
14	1.80	2.00			1.70	2.00
16	1.00	1.05	\$1.20	\$1.30	.95	1.05
18	.65	.70	.75	.90	.55	.70
20	.50	.55	.60	.70	.45	.55
22	.35	.40	.45	.50	.30	.40
24	.25	.30	.35	.40	.20	.30
26	.15	.17	.20	.25	.13	.17
28	.10	.15	.15	.20	.10	.15
30	.10	.12	.12	.15	.10	.12
32	.10	.12	.12	.14	.10	.12
34	.10	.12	.12	.14	.10	.12
36	.10	.12	.12	.14	.10	.12
38	.10	.12	.12	.14	.10	.12
40	.10	.12	.12	.14	.10	.12

Note: Prices per 100 feet are higher than per pound rate to cover cost of measuring and should be used only for small lot sales.

LEAD & RUBBER COVERED WIRE AND CABLE

Size	Conductor Solid	Conductor Stranded	Size	Conductor Solid	Conductor Stranded
No. 12	Price Per Foot	\$.05 \$.06	250,000 C. M. Cable		\$.78
No. 10	"	.06 .07	300,000 C. M. "		.88
No. 8	"	.08 1/2 .09	350,000 C. M. "		.99
No. 6	"	.10 .11 1/2	400,000 C. M. "		1.08
No. 4	"	.17 .18	500,000 C. M. "		1.28
No. 3	"	.22	600,000 C. M. "		1.58
No. 2	"	.25	700,000 C. M. "		1.77
No. 1	"	.30	750,000 C. M. "		1.89
No. 1/0	"	.36	800,000 C. M. "		2.00
No. 2/0	"	.42	900,000 C. M. "		2.20
No. 3/0	"	.47	1,000,000 C. M. "		2.35
No. 4/0	"	.54			
No. 5/0	"	.63			

NOTE: Above prices are based on following quantities:

No. 16 to No. 8 Less than 100 ft. No. 6 and larger less than 50 ft.

Size	Duplex Solid	Duplex Stranded	Three (3) Conductor Solid	Three (3) Conductor Stranded
No. 12	Price Per Foot	\$.08 \$.10	\$.17	\$.21
No. 10	"	.12 .14	.22	.25
No. 8	"	.14 1/2 .16	.27	.33
No. 6	"	.17 1/2 .20	.33	.37
No. 4	"	.20 .23	.45	.53
No. 3	"	.23 .27	.53	.63
No. 2	"	.27 .33	.63	.73
No. 1	"	.33 .40	.73	.83
No. 1/0	"	.40 .48	.83	.93
No. 2/0	"	.48 .58	.93	1.03
No. 3/0	"	.58 .70	1.03	1.13
No. 4/0	"	.70 .85	1.13	1.23

NOTE: Above prices are based on following quantities:

No. 16 to No. 8 Less than 100 ft.

No. 6 and larger less than 50 ft.

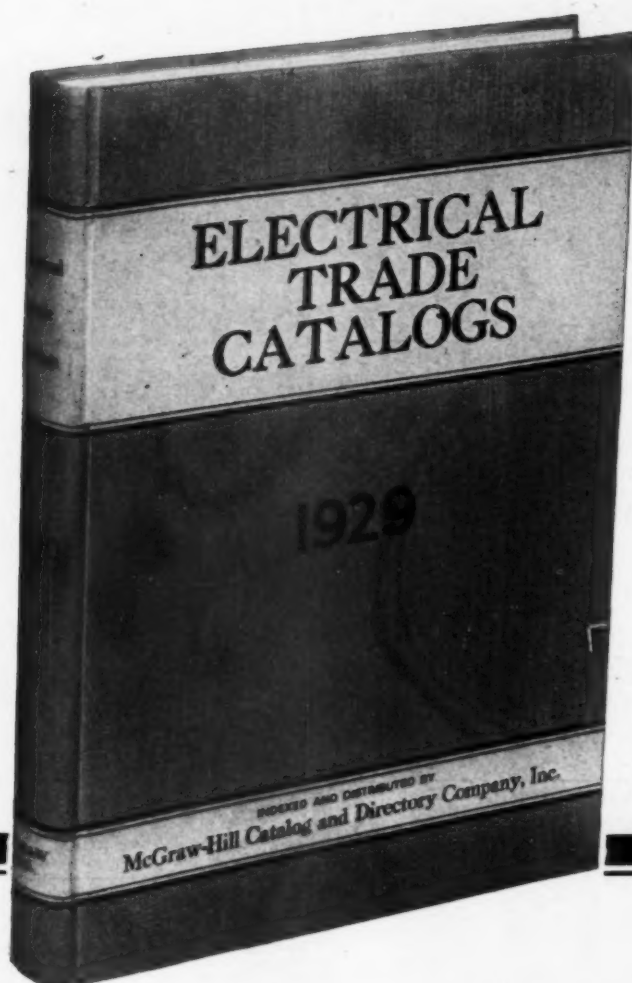
STEEL TAPED PARK CABLE

600 V. only

Size	1 Cond.	2 Cond.	3 Cond.
No. 12 Solid	\$.18	\$.26	\$.40
No. 10	.22	.29	.45
No. 8	.24	.34	.53
No. 6 Stranded	.33	.46	.63
No. 4	.40	.56	.87

NOTE: Above prices are based on quantities of 100 to 249 feet—Prices on smaller quantities are higher. Prices on Park Cable over 600 V. are higher.

The Catalog Place of the Electrical Trade



Look it up in this Binder!

The Green Book with the Orange Bands — whenever you need information on what or where to buy!

Manufacturers News

A department for the announcement of activities of manufacturers that are of interest to contractors, such as changes in executive personnel, branch offices, new products, etc.

Anaconda Purchases Marion Insulated

The Anaconda Wire & Cable Co., Pawtucket, R. I., announces the purchase of the assets of the Marion Insulated Wire & Rubber Co., Marion, Ind. In the future this mill will be operated as the Marion Mill of the Anaconda Wire & Cable Co., and J. F. Auten will continue as manager.

* * *

Steel & Tubes Opens Branch Factory

Steel & Tubes, Inc., Cleveland, O., has opened a new plant at Ferndale, Mich., for the manufacture of welded steel tubing. This new plant costing, fully equipped, over \$1,000,000, takes the place of the company's Toledo, O., factory and is a great deal larger, containing approximately 113,000 sq. ft. of floor space.

* * *

G. E. Supply Sales Organization

The General Electric Supply Corporation completed the consolidation of the fourteen wholesale distributing corporations owned by the General Electric Company on October 1, 1929, with officers and directors as announced last month.

The commercial organization will be headed by H. B. Tompkins, general sales manager, with headquarters at Bridgeport, Conn., and the following will be commercial vice presidents, with headquarters as indicated: W. J. Keenan, Bridgeport; H. F. Thomas, Chicago; M. A. Pixley, Columbus; H. R. Noack, San Francisco.

H. R. Worthington will be general sales representative for the southeastern states, with headquarters at Atlanta, and W. M.

Goodwin for the southwestern states, with headquarters at Dallas.

In the field there will be ten groups of houses, called districts, headed by the following district managers with district headquarters as indicated: New England, J. L. Busey, Boston; Metropolitan, J. G. Johannesen, New York; Atlantic, J. G. Johannesen, Philadelphia; Southeastern, J. J. Perry, Atlanta; Lake States, H. F. O'Malley, Columbus; Central, M. L. Spaulding, Chicago; Midwestern, E. A. Oas, St. Louis; Southwestern, H. E. Hobson, Dallas; Rocky Mountain, J. A. Kahn, Salt Lake City; Pacific, D. E. Harris, San Francisco.

* * *

Maurice J. Lackritz is now handling the eastern territory of the Art Metal Co., Cleveland, O.

Wagner Opens Dallas Branch

Wagner Electric Corporation of St. Louis has announced the opening of a branch sales office in Dallas, Tex. Alfred B. Emrick, who has been manager of the firm's Pittsburgh office, has been placed in charge of the newly established Dallas branch. The Pittsburgh office is now in charge of James G. Patillo, Jr. J. B. Holston has been transferred from Chicago to manage St. Louis territory. Ralph R. Rugheimer, formerly of St. Louis, is now with the Atlanta branch sales office.

* * *

The Frankelite Co., Cleveland, O., has appointed Stivers & Weber, 33 W. 60th St., New York City, as its agent for the metropolitan territory.

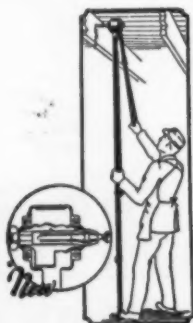


SQUARE D PLANT DECORATED FOR INSPECTORS:—The Square D Co., Detroit, Mich., manufacturers of electrical control equipment, was host to the Western Section of the International Association of Electrical Inspectors on the last day of their convention in Detroit, Aug. 26-29. Four special buses transported the Inspectors and members of their party from their headquarters to the Square D plant, which was brightly decorated for the occasion. The inspection trip included a visit to the permanent display room maintained by the Square D Co., in which every product made by its three Divisions—Switch and Panelboard, Detroit; Industrial Controller, Milwaukee; Porcelain, Peru, Ind.—is displayed to all visitors.

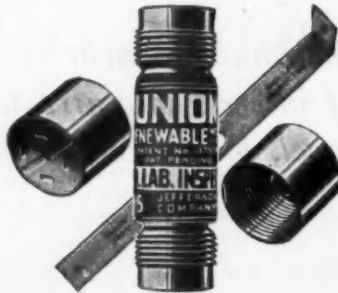
New Electrical Products



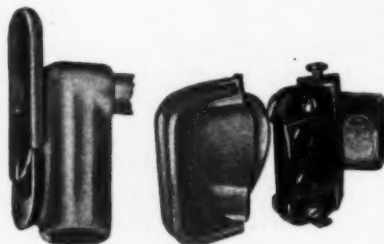
The Square D Co., Detroit, Mich., is introducing a full line of narrow lighting panelboards. These boards are 12 in. wide overall (6-in. panel and 3-in. gutter all around) and are designed to meet all requirements up to 100-amp. capacity. They are made with all copper bus-bars of standard capacity. The boards are available with cartridge fuses as well as plug fuses and switched circuits, as well as fuses only, can be supplied in the branches. From four to thirty-two branch circuits are obtainable, according to the company, and it is also stated that only eleven box sizes are required to complete the line.



The HyKon Manufacturing Co., Alliance, O., announces the new HyKon boring machine. It has a self-centering chuck which is said to be a decided improvement over the former type of machine. Any standard square shank bit is simply placed in the chuck at a desired length from the machine. The thumb nut is tightened with fingers, automatically centered. Bit breakage is eliminated. Its construction contains four principal working parts—shaft and ratchet, main spring, and pulley.



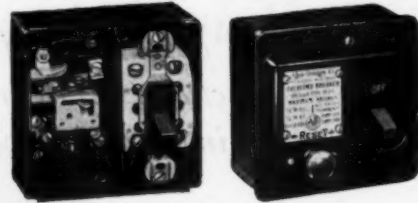
Jefferson Electric Co., Chicago, Ill., is offering a new Union ferule type renewable fuse. The new design includes three parts: A grey horn fibre casing with threaded brass ferrules and two screw caps, in addition to a link. The design also embodies the absence of loose washers, both ends open for inspection and cleaning and venting through caps.



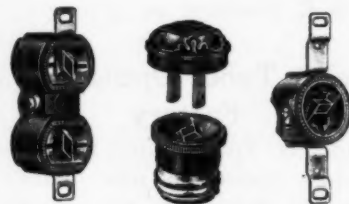
Two of the new conduit service fittings now being manufactured by the Adalet Mfg. Co., 4610 St. Clair Ave., Cleveland, O., are shown here. The service entrance fitting, left, makes it unnecessary to remove the composition cover in order to pull the wires. It consists of two parts, a base and a cap. The latter may be lifted off by loosening the two side locking screws. The service entrance ell is designed to hold the conduit close to the building and is made reversible. Both ends of the cover are drilled and tapped for cover-locking screws. These ells may also be had with a spring locking cover.



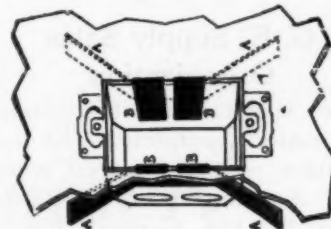
Telkor, Inc., Elyria, O., has developed an armor cutter that is said to be universal for common sizes of armored cable and makes a clean cut of one section of the metal armor strip, leaving a finished end on the cable. Of all the parts embodied in the cutter only the cutting blades will require replacing over a long period.



A complete line of overload breakers for fractional horsepower D. C. and A. C. single phase and polyphase motors is announced by the Allen-Bradley Co., 286 Greenfield Ave., Milwaukee, Wis. Protection is afforded against motor burnouts and damage to the device due to overloads. These breakers have a maximum rating of 1 H. P., 125 V., and 1½ H. P., 220 V., and may be obtained both with and without snap switch and fuse clips.



New products being marketed by the Arrow Electric Co., Hartford, Conn., are Nos. 1911 and 1912 duplex bakelite convenience outlets and No. 1900 bakelite attachment plug. The body incorporates a finding ridge in its design.



The Madison Equipment Co., Cleveland, O., have brought out a new device under the name of Holdit for the purpose of fastening switch boxes in walls without use of screws. The device has four fingers—the two in the long direction when bent back serving as a wall anchor, and the two in the short direction when bent over the box as shown in the illustration, serving to fasten the box firmly in position. To install, cut wall opening just large enough to admit box; bend back fingers of Holdits in long direction and insert in opening, one on each side; bend back short fingers slightly to hold in position; insert box, and then bend short fingers over box as shown.

Concrete Inserts Save Time in Conduit Installation



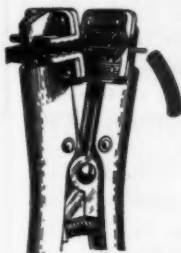
Pound them in the form; the concrete holds them solid; hang the pipe below.

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Gentlemen: I enclose my P. O. Money Order for \$2.00. Please send me the No. 77 ELECTRICIAN'S Hammer at once.

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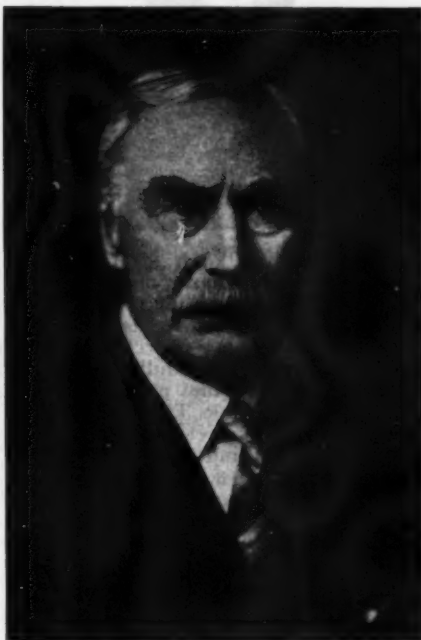
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Write your Hardware Dealer's Name and Address on Coupon Margin

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Youngstown President Celebrates 75th Birthday

James Anson Campbell, founder and, since 1904, president of the Youngstown Sheet and Tube Co., celebrated his seventy-fifth birthday anniversary September 11. A



J. A. Campbell

large number of Mr. Campbell's friends, including some of the most prominent steel men in the country, were present at a dinner given in his honor.

Among felicitations received by Mr. Campbell was the following message from President Hoover:

"Permit me to join with your other friends in extending to you heartiest congratulations upon your seventy-fifth birthday."

* * *

The Steel City Electric Co., Pittsburgh, Pa., announces the addition to its line, of capped bushings, sometimes called "Bushetts."

* * *

A bulletin containing illustrations and descriptions of forced draft fans suitable for use on small furnaces and boilers has been published by the American Blower Corp., Detroit, Mich. The catalog also gives application and technical data. Another publication issued by this company is Bulletin 7818 giving complete information on the company's line of "Venturafin" unit heaters.

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Insulating Tapes and Splicing Compounds



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The wise Electragist uses our prices when estimating his illuminating work and

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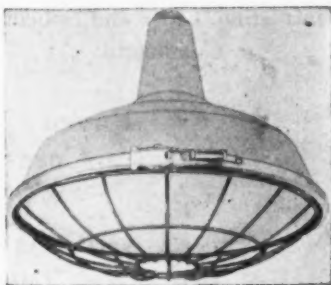
You can do the same. Mail the coupon today and get our bulletin. A type for every purpose.

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Send me bulletin quoting NEW LOW PRICES on standard quality reflectors.

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EC-29

New Electrical Products



A wire guard to protect the glass disc of Benjamin dust tight covers against damage and breakage is now in production at the Benjamin Mfg. Co. plant, Des Plaines, Ill. It is made of heavy gauge steel wire, heavily tinned to prevent corrosion and each joint is securely welded. Attachment of the guard is accomplished through release of the spring clamp on the retaining band of the dust tight cover and insertion under the band of the four steel lugs welded to the guard rim. The illustration shows guard and dust tight cover attached to a Benjamin RLM dome reflector.



The McGill Mfg. Co., Valparaiso, Ind., is manufacturing No. 58 "Levolier" switch bracket. It is designed to allow for the placing of switches in any position.



A knockout punch for enlarging holes in metal boxes up to No. 10 gauge has been placed on the market by the Greenlee Tool Co., Rockford, Ill. Cutting is done by a two point press which is forced through the metal by a screw turned by a wrench. The complete set of punches to make $\frac{3}{8}$, $1\frac{1}{2}$, $1\frac{3}{4}$ and $1\frac{1}{2}$ in. holes to fit $\frac{1}{2}$, $\frac{3}{4}$, 1 and $1\frac{1}{4}$ in. conduit comes packed in a leather case.

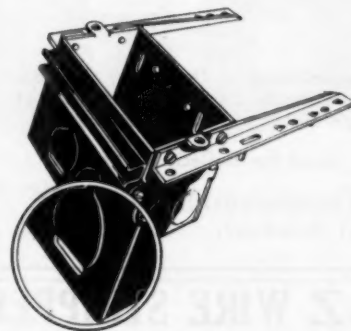


The Detroit Torch & Mfg. Co., Detroit, Mich., has improved its line of torches, changing the finish from polished brass to red enamel and supplying all torches with removable wooden handles. In the No. 44 model, the pump is installed in the tank. This torch has a flat tank of steel, a detachable hook for soldering coppers, and is of the black flow type.

An inverted rotary converter is announced by Roth Bros. & Co., 1400 W. Adams St., Chicago, for use in operating Neon signs located in districts which are supplied with direct current. In designing this converter special attention has been given to the prevalent power factor and to the voltage and speed regulation.



An improved line of beam clamps for indoor and outdoor substations is announced by the General Electric Co., Schenectady, N. Y. These clamps are designed to permit the changing of existing installations to accommodate new apparatus without drilling the structural steel members. A new fabricated terminal board has also been placed on the market by this company, for installations where a large amount of small wiring is used on the back of a panel.



The Roach-Appleton Mfg. Co., Chicago, Ill., has brought out a line of switch boxes under the name of "Pri-Outs," in which the entrances into the boxes are pried out with a screw driver instead of knocked out with a hammer. The advantage of this new type of box as advanced by the company is that it eliminates the possibility of the wire-man injuring his hands, inasmuch as the knock-outs are pried outwardly. The discs are set flush with the box to permit $\frac{1}{8}$ in. more room inside the box for wiring. The slot in which the screw driver is inserted is $\frac{3}{8}$ by $\frac{3}{32}$ in.



The Borden Electric Co., 480 Broad St., Newark, N. J., has designed the Groundometer, an instrument for measuring the resistance of earth electrodes. When measuring with the type D, illustrated, the current value may be as high as $\frac{2}{10}$ of an amp. with the result that effects from stray earth currents are greatly reduced or entirely eliminated, it is said.

General Electric Supply Corp.

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7-10-29

The Paine Company, 2947-51 Carroll Ave., Chicago, Ill., have just completed addition to their building whereby they have increased their manufacturing space, their warehouse facilities, and their offices. They have installed additional manufacturing equipment.

* * *

It is announced that the Marwood Co., Seattle and Spokane, Wash., San Francisco, Calif., and Portland, Ore., has been appointed distributor of Emerson motors on the Pacific Coast by the Emerson Electric Manufacturing Co., St. Louis, Mo. Stocks will be carried in each of these cities.

* * *

The Sierra Equipment Corporation, San Francisco, Los Angeles and Seattle, has been appointed Pacific Coast representative of The Hart Manufacturing Company, Hartford, Conn.

* * *

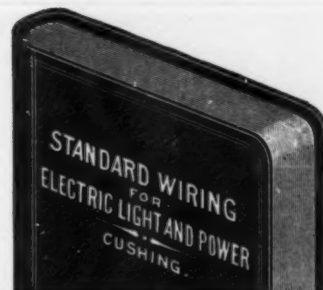
Wagner Electric Corp., St. Louis, has issued a 24-page Bulletin, No. 165, in which are discussed and compared seven types of squirrel cage motors. Speed-torque curves, a table of comparative prices and a detailed table of electrical and mechanical characteristics, with a discussion of applications help the motor buyer to choose the right type of squirrel cage motor for each job. According to the authors the bulletin is the "first attempt on the part of a motor manufacturer to explain to motor buyers and users the difference between the various types of squirrel cage motors."

* * *

A booklet on radio convenience outlets has been issued by the Yaxley Mfg. Co., Chicago, Ill. It presents in a concise and convenient form wiring data for the installation of radio outlets in homes, apartments, hotels, etc.

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